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TELEGRAMS: "CHEMICUS,
CANNON, LONDON" (2 Words)
No. 2523.

Published Weekly at 42 Cannon St., London, E.C.4.

JUNE 16. 1928.

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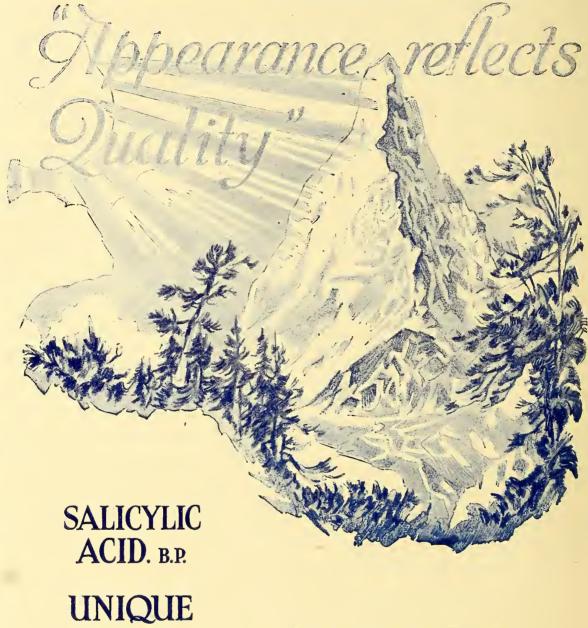
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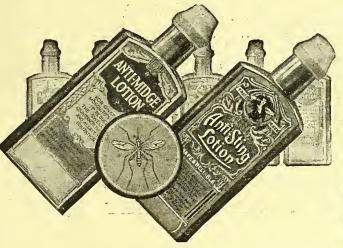
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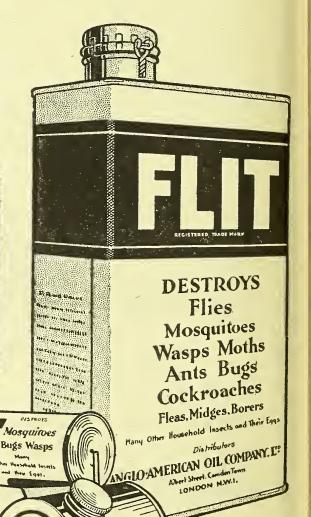
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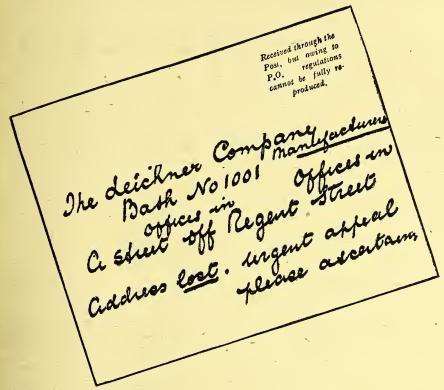
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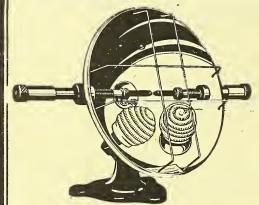
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- 1. Window Display to be for a period of a fortnight.
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- 3. Orders for stock will be supplied (subject to the present 90 days' special bonus terms) before June 30th, 1928.
- 4. Display to commence at any time up to August 1st, 1928.

The First Prize of £100 will be awarded to the chemist making the best Window Display, to be decided from a photograph of the window to be supplied by the chemist. The decision of the Directors of Gilmont Products, Limited, to be final. Size of window does not necessarily mean a better window. A small window arranged in a meritorious and attractive manner will stand an equal chance of winning a prize.

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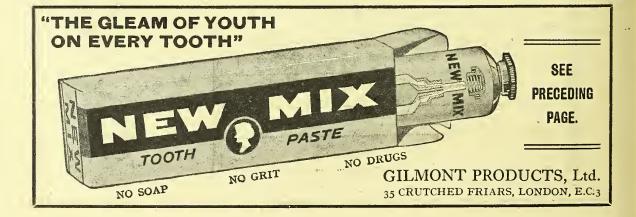
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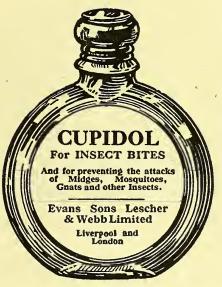
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Well—"Later on" is now here—so please do not leave it until "later on" becomes "too late." Read the list of valuable money prizesstudy the rules given below and then make up your mind to win the First Prize. The Conditions are simple enough. Just Read Them.

The judging in connection with this Window Display Competition has been arranged with the following gentlemen, members of the British Association of Display Men, of 11 Berkeley St., W.1:

Mr. ERNEST WILLSON, Display Manager of Kodak Ltd., and Past President of the B.A.D.M.

Mr. W. G. ROWE, Display Manager of Dickins & Jones, Ltd. Mr. F. C. LAWRENCE, Secretary of the B.A.D.M.

WHITAKER'S COMPETITION DRESSING

CONDITIONS

All Window Shows must be put in before June 30th, 1928, and remain on exhibition for a period of not less than seven days.

The Display can be made to advertise exclusively "Luton" Straw Hat Dyes or "Auroral" Cold Water Dyes, or, if preferred, a combination of both.

Each scheme must represent the competitor's original idea and each entrant must provide his own materials. N.B.— The Standard "Auroral" Window Show must not be used for this competition.

For the purpose of entering the competition all Competitors must secure a photograph of their Window with their name and address written plainly on back and submit it, together with a covering letter, indicating when the Display was given.

All entries must be received by Whitaker & Co., Kendal, not later than SATURDAY, JULY 7th.

The list of Prize Winners will be announced in the editions of the " Pharmaceutical Journal "and the "Chemist and Druggist " published on July 28th.

No correspondence can be entered into with regard to the above Competition and the judges' decision must be accepted as final and binding on all competitors. The receipt of each entry shall be regarded as acceptance of the above.

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Entry To-day

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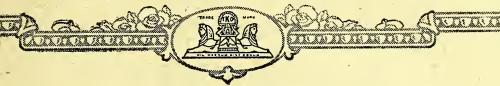
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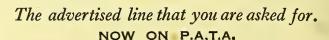
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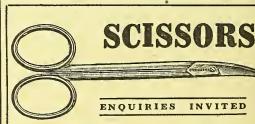
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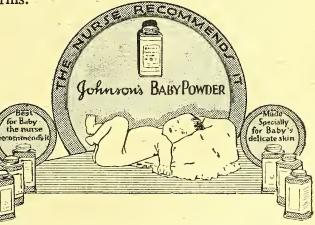
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PER TIN ONI GROSS
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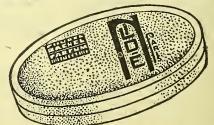
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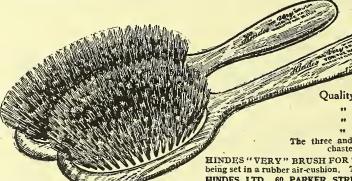
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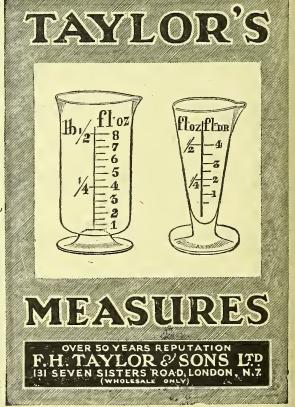
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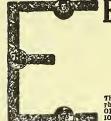
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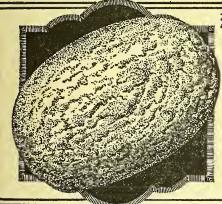
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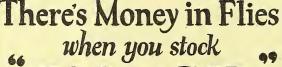
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A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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Coming Events

Tuesday, June 19

Pharmaceutical Society of Great Britain (Leeds Branch), Hotel Metropole, King Street, Leeds, at 8.30 p.m. Annual meeting.

Wednesday, June 20

Birmingham Pharmaceutical Association, Old Rose and Crown Café, Rednal. Sports at 2.30 p.m. Tea at 5 p.m. Tickets, 2s. each.

Liverpool Chemists' Association.—Annual picuic to Windermere.
Train from Exchange Station at 1.45 p.m. Tickets, 10s. 6d.

each.

Pharmaceutical Society of Great Britain (Manchester, Salford and District Branch), Central Station, Manchester. Joint outing with the Associations to visit works of Erasmic Co., Ltd. Train at 1.30 p.m. to Warrington. Tickets, 3s. each.

Pharmaceutical Society of Great Britain (North British Branch), 36 York Place, Edinburgh, at 11 a.m. Annual general meeting.

MAW CHALLENGE SHIELD.—The annual competitions are to be held at the sports ground of S. Maw, Son & Sons, Ltd., New Barnet, on June 28. Bowls, croquet (ladies), golf, putting (ladies), and tennis. Members of London Pharmaceutical Associations are cordially invited.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Merchandise Marks Act

The Standing Committee (General Merchandise) appointed by the Board of Trade will hold their inquiry as to whether imported cotton-wool, bleached or unbleached, medicated or unmedicated, absorbent gauze tissue, and sanitary towels, should bear an indication of origin, at 11.30 a.m. on Monday, July 30, and at 10.30 a.m. on Tuesday, July 31. The inquiry will be held at the Board of Trade Offices, Great George Street, London, S.W.1. Communications should be addressed to the Secretary, Mr. E. W. Reardon, at that address.

Fertilisers and Feeding Stuffs

The Minister of Agriculture and Fisheries and the Board of Agriculture for Scotland have made (Statutory Rules and Orders, 1928, No. 421, Stationery Office, 9d.) a number of regulations relating to fertilisers and feeding-stuffs. Among the matters dealt with are:—Manner of marking particulars on the label in the case of sales of small quantities; limits of variation for fertilisers; manner of taking samples; form of register of parcels delivered or consigned ex ship; period for which registers, statutory statements and duplicate parts of samples shall be retained; methods of analysis; qualifications to be possessed by agricultural analysts; forms of certificate and variations of schedules.

Sheep Scab (Amendment) Order of 1928

(From "The London Gazette," June 8, 1928)

The Minister of Agriculture and Fisheries, by virtue and in exercise of the powers vested in him under the Diseases of Animals Acts, 1894 to 1927, and of every other power enabling him in this behalf, hereby orders as follows :-

Withdrawal of Restriction on the Use of Arsenical Sheep Dips

1.—(1) Article 30, and paragraph (2) of Article 31, of the Sheep Scab Order of 1928 (hereinafter referred to as the principal Order) are hereby revoked.

(2) Article 41 of the principal Order shall be read and have effect as if in the definitions of the expressions "Double-dipped" and "Double-dipping," the words "being in an approved sheep dip which does not contain arsenic, and" were omitted.

Short Title

2.—This Order may be cited as the Sheep Scab (Amendment) Order of 1928, and shall be read with the principal Order.

In witness whereof the Official Seal of the Minister of Agriculture and Fisheries is hereunto affixed this sixth day of June, nineteen hundred and twenty-eight. J. Jackson. (L.S.)

Authorised by the Minister.

Inquests

At a Margate inquest, on June 9, on the body of Mrs. Maude White, a widow, it was stated that when found Maude White, a widow, it was stated that when round ill she said she had taken 200 aspirin tablets. A verdict of "Suicide while of unsound mind" was returned.

At Garston, Lancashire, Peter McCormack, dock labourer, applied "aromatic vinegar" to a corn, and died later in hospital from septicamia. At the inquests a verdict of "Death from misadventure" was returned.

A verdict of "Death from misadventure" was returned at a recent inquest, at Lichfield, on the body of Sarah Dorricott, a widow, aged eighty-five. It appeared that the old lady, who had become senile, had drunk some of the contents of a smelling-bottle, which contained 10 per cent. of carbolic acid.

An inquest was held at Barnstaple, on June 11, on the body of Mr. Walter S. Walker, Bickington, a man of independent means. Mr. Thomas Tickle, F.I.C., Ph.C., Devon county analyst, said that the man's "mummy" was thoroughly permeated with the most effective of all embalming agents-arsenious oxide. Other evidence

showed that Mr. Walker drank a tumblerful of weedkiller: the coroner recorded a verdict to the effect that the deceased was of unsound mind at the time.

An inquiry was held at Addlestone, on June 8, concerning the death of Mr. H. A. Mitchell, a director of Condy & Mitchell, Ltd., London, E.C. The widow stated that her husband was interned in Germany throughout the recent war, and as a result his health suffered. He had been in the habit of taking sleeping draughts. Medical evidence showed that death was due to an overdose of veronal, accentuated by pneumonia, and the jury returned a verdict of "Death from misadventure.

An inquest was held on June 7, at Grimsby, on the body of George Burgess, a pensioner, who died as the result of drinking a dose of liniment in mistake for his medicine. A medical witness said that the deceased had suffered from chronic bronchitis and advanced senility. He prescribed medicine, but the liniment was the deceased's own recipe which he had made up by a chemist. The deceased had told him that it contained opodeldoc, hartshorn and laudanum. A dose would not have killed a younger man, and at first the witness thought that the deceased would recover. Death was due to shock caused by the caustic action of the ammonia. The Coroner: The only thing that is troubling me is whether this ought not to have been in a bottle which would have shown it was poison. Witness: It is not necessary, seeing that it was only a mild poison. The poison in this case would be the laudanum, and at the price of laudanum to-day there would only be the smallest quantity. own recipe which he had made up by a chemist. laudanum to-day there would only be the smallest quantity. The deceased told me that there was twopennyworth of each in the mixture. Mr. Donald Sutherland, chemist and druggist, Corporation Road, stated that the deceased was a very peculiar man and would not let anyone but himself (witness) make up his prescriptions. anyone but himself (witness) make up ins prescriptions. For the liniment he always brought an ordinary medicine bettle. The liniment was supposed to be made up of opodeldoc, hartshorn and laudanum, but witness never put in any laudanum. The bottle always had a "Not to be taken" label. He put in sufficient hartshorn to give it a smell. It was not a scheduled poison, and it was really not necessary to put it in a poison bottle. The Coroner: Apart from the regulations, would it not The Coroner: Apart from the regulations, would it not have been best to put it in a poison bottle?—In this case it might have been. The coroner, in recording a verdict of "Accidental death," said that whether it was necessary to put a mixture of this sort into a poison bottle or not it would be seen. bottle or not, it would be very much safer if it was put into a bottle which would indicate by the touch, even to a short-sighted person, that it was not to be taken. He also pointed out the extreme danger of drinking medicine out of a bottle. Had the deceased poured a dose into a glass, he would have smelt it.

Birmingham .

It has been decided at a council meeting of the University to award a scholarship, to be named the Francis Corder Clayton scholarship, to commemorate the name of the late Alderman F. C. Clayton, Ph.C.

The British Association of Chemists visited the Bournville Works and village at the invitation of Cadbury Bros., Ltd., on June 8. For the first time the visitors were shown over the chemical, bio-chemical and research laboratories, which are under the care of Mr. A. W. Knapp and Mr. J. R. Johnson, assisted by several qualified analysts. Dr. Mason proposed a vote of thanks, and Mr. F. H. Alcock, F.I.C., Ph.C., seconded. Alderman George Cadbury replied.

Miscellaneous

CARNIVAL AWARD.—In a carnival at Ross recently, Mr. J. H. Hart, Ph.C., won the first prize for the best trade exhibit.

Poison-licence application.—Mr. T. H. Hutchinson, secretary of the Staffordshire Farmers, Ltd., Wolverhampton, has applied to the Town Council for a licence to sell agricultural and horticultural poisons.

IN THE COURTS.—At Old Street Police Court, London, on June 5, E. R. Goodrich, Ltd., drysalters, Mile End Road, E., were ordered to pay 21s. costs on a charge of

having sold pearl barley containing 180 parts per million of sulphur dioxide.—At Derby, on June 6, Leslie Bull, aged twelve, was placed on probation on a charge of stealing perfume and other goods, value £5, the property of Weston & Co., Ltd., chemists, St. Peter's Street.
The Bench fined the boy's father £5 for receiving the

NORTH-EAST COAST EXHIBITION.—An Exhibition of Industry, Science and Art is being held in Newcastle-upon-Tyne from May to October, 1929. The president of the Committee is the Hon. Sir Charles A. Parsons, O.M., F.R.S., and the chairman is the Lord Mayor of Newcastle. Representative committees have been constituted and of the characteristic of the chara tuted, and among these interests are included the chemical industries. Full particulars may be obtained from the Secretary of the Exhibition, Pearl Buildings, Northumberland Street, Newcastle-upon-Tyne.

Fires.—The following outbreaks of fire have been by Morgan-Davis & Sons, Ltd., chemists, George and Catherine Wheel Alley, Bishopsgate, London, E.C., were involved in an outbreak of fire which occurred on June 7. The damage was not of an extensive nature.—There was an outbreak of fire recently at the pharmacy of Mr. T. W. Garland, Ph.C., Cannock, caused, it is thought, by the sun's rays being focused on some paper. The flames were extinguished before much damage was done.

Scottish News

North British Executive

The following are the names of the persons eligible for election to the North British Executive. Voting papers must be returned to the Pharmaceutical Society's Edinburgh offices by 4 p.m. on June 19:-

burgh offices by 4 p.m. on June 19:—

Arthur, H. P., 361 Victoria Road, Crosshill, Glasgow, Bennett, F. W. M., 238 High Street, Arbroath, Boag, Margaret G., 29 London Road, Edinburgh, Brown, W. S., 365 Holmlea Road, Catheart, Glasgow, Carmichael, J., 71 High Street (West), Leslie, Fife. Coull, G., 17 Smith's Place, Leith.

Currie, A., 102 Ferry Road, Leith.

Duff, P. M., 143 Dumbarton Road, Partick, Glasgow, Forbes, J. J., 7 Scott Street, Perth.

Harley, D., 121 High Street Musselburgh,

McIdrum, M., 7 Burns Statue Square, Ayr.

Milne, J. R., 126 Hilltown, Dundee.

Murray, A., 240 Albert Road, Pollokshields, Glasgow, McKenzie, T., 1 High Street, Inverness,

McMillan, A., 317 Maryhill Road, Glasgow, McNab, W. G., Gorebridge.

McVitae, J. B., 27 Langs de Place, Glasgow,

Robertson, A., 20 Douglas Street, Dunfermline.

Simpson, C., 23 King Street Aberdeen.

Smith, Margaret McA., 30 Bruntsfield Gardens, Edinburgh, Stewart, C., 231 High Street, Kirkcaldy,

Wade, Margaret C., "Woodcroft," Larbert,

Weir, J., 3 Glasgow Road, Clydebank.

Brevities

Mr. Allan Wilson, chemist and druggist, will shortly open a pharmacy at 14 Wallace Street, Galston, Ayrshire.

The committee of Stirling Combination Hospital has appointed W. J. Moore & Son, Murray Place, as their chemists.

Mr. John B. H. Smith, chemist and druggist, has acquired the two businesses carried on by Mr. John Scott at 31 Roxburgh Street and at 54 Ann Street, Greenock.

The Rev. W. G. Kirk, chemist and druggist, who was formerly in business in Rothesay, has accepted a call to the Linthouse United Free Church, South Govan,

A correspondent writes :- "There is to-day a marked disinclination on the part of chemists to stock any and every proprietary put on the market, and this is all to the good.

At a recent meeting of the Lanarkshire Insurance Committee Mr. A. A. Dick. Bellshill, was nominated unanimously for the new Executive Council of the Association of Insurance Committees for Scotland.

June 16, 1928-

The annual competition for the Petrie Trust Bursary will be held in Aberdeen towards the end of this month. Those eligible must have served at least a three-years' apprenticeship in the city or county of Aberdeen. Further particulars are obtainable from M. K. Watt, 28 Easlemont Avenue, Aberdeen.

At Hamilton Sheriff Court, on June 11, a young woman from Motherwell admitted having been in the unauthorised possession of morphine. The fiscal explained that the accused had been operated on twenty-seven times. She took the prescriptions to the chemists, and, by altering the quantity of morphine stated in them, succeeded in getting possession of thirty tablets more than the quantity to which she was entitled. A penalty of £1 was imposed.

A correspondent writes:—"One reads with much appreciation the article on the New Zealand dispensing tariff in the C. & D., June 2, p. 691; and if British chemists would 'tak tent,' to use a Scottishism, and 'mend their ways' in dispensing charges, an improvement in pharmacy would be near at hand. Generally speaking, the New Zealand charges are double those charged in Scotland, although there are painful cases of even lower charges by certain members of our calling."

Edinburgh

Professor Sir James Walker, F.R.S., who is retiring from the chair of chemistry at Edinburgh University, has been presented by the members of the University Chemical Society with a copper tray and other tokens of esteem.

of esteem.

The Cumming Prize (value £1 1s.), presented by Dr. John Cumming, open to apprentices of the Edinburgh Chemists'. Assistants' and Apprentices' Association, for practical pharmacy, dispensing and reading of autograph prescriptions, has been awarded to William John Campbell Mowat (pupil of John S. Stewart, chemist and druggist, Auchterarder, now with Paton & Finlay, Edinburgh). The second prize (value 10s. 6d.), presented by the president (Miss M. McA. Smith), was awarded to John Geddes (pupil of Halbert McGowan, chemist and druggist, Fauldhouse, now with King & Son, Edinburgh).

Irish News

Brevities

Mr. G. Moffatt has opened a pharmacy at 350 Beersbridge Road, Belfast. He was formerly with Mr. Samuel Gibson, chemist and druggist, King Street.

Mr. C. W. Musgrave has opened a pharmacy at 441 Ormeau Road, Belfast. He served in apprenticeship with Mr. H. Todd. Holywood Road, Belfast, and has latterly been with Messrs. T. W. Reynolds, Dungannon.

A fire which broke out in Belfast on June 5 resulted in the destruction of part of the premises of F. Storey, Ltd., manufacturing chemists, Alfred Street. The roof and the two top floors were badly damaged, while a Jarge two-story shed at the back of the premises was gutted. Dense masses of smoke were given off by burning chemicals, and the heavy fumes added to the difficulties of the firemen. The cause of the outbreak is unknown.

The cost of analysis of samples from County Fermanagh is now eight times what it was some years ago, said the secretary of the Fermanagh County Council, at its monthly meeting on May 5. It used to cost £40 a year, and now it is over £300. Members thought that the police should send fewer samples, but the Ministry of Home Affairs had expressed a different opinion. The chairman suggested that a new appointment be made at an inclusive salary of £150 a year. The matter was referred to the Finance Committee.

Gazette Partnership Dissolved

TRACEY, J. R., and BANHAM, R. F., 659 London Road, Westcliff-on-Sea, carrying on business as drug and photographic stores under the style of Tracey & Banham.

Summer Outings

Stockport Picnic

The fifth annual charabanc picnic of the Stockport and District Branch of the Pharmaceutical Society was held on June 1. The party journeyed via Chelford, Holmes Chapel, Middlewich, Tarporley, Farndon and Wrexham to Llangollen, where lunch was partaken. The return journey was by way of Ruabon, Wrexham, Chester, Northwich and Altrincham; tea was served at Chester, after which the party had a very enjoyable sail on the River Dee.

Cardiff Outing

The first summer outing of the Cardiff Pharmacists' Association, held on June 6, took the novel form of a "mystery tour." The party, numbering between thirty and forty, were conveyed in charabancs through some of the less-frequented parts of South Monnouthshire, including Chepstow, Devaden and Beachley Ferry; upon arrival at Princefield a Wye salmon tea was enjoyed at the hotel. The president (Mr. J. D. Jenkins) and the two secretaries are to be congratulated on the arrangements.

Associations' Meetings

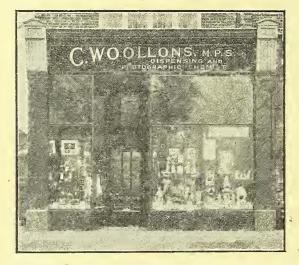
Edinburgh.—The fourth botanical excursion of the summer session of the Edinburgh Chemists' Assistants' and Apprentices' Association took place on June 6, when a party left for Kinghorn, where they were joined by a contingent from Kirkcaldy. Under the leadership of Mr. David Anderson, M.A., B.Sc., who was introduced to the company by Mr. John Gilmour, Ph.C., Dunfermline, the party proceeded to the beach at Kinghorn. Mr. Anderson explained the scientific principles which bring about a seashore flora and the colour classification of Thalophytes. The chlorophyll plants were self-supporting, and they could thus separate the algae from the fungi. Characteristic seashore plants were fully described, and the influence of salt on plant life was illustrated. Mr. Anderson described experiments he had made on Plantago maritima. Plants taken from the salt marshes on the shore at Elie were planted inland in sheltered places, and even some of them on the seashore level where there were no seashore conditions. The experiments were designed to prove that external conditions as winds were not responsible for changes in the appearance of these plants. In the case of Arenaria peploides, which ordinarily has a dark green appearance, the plant becomes lighter growing in salt marshes because of the accumulation of salt in the cells of the leaf, whereby the chloroplasts were diminished. Other points relating to ecological conditions were illustrated and explained. On the motion of Miss Margaret McA. Smith (president) a vote of thanks was awarded to Mr. Anderson. In replying, Mr. Anderson said he had to thank them for the privilege of conducting one of their excursions. He had learned much of the Association's work and activities, and he would be delighted to be of service to them at any future time.

London (W.).—The 'following have been elected officers of the Western Pharmacists' Association for the year 1928-29:—President, W. B. Falding; Vice-President, T. Morley Taylor; Joint Secretaries, P. S. Windwood and T. Morley Taylor: Social Secretary, Gwilym Thomas; Treasurer, W. E. D. Shirtliff; Sub. District Officers, T. Wade (Chelsea), G. Roe and C. F. H. Broad (Fulham), W. Wilkinson (Hammersmith), W. Browne (Hampstead), Albert Smith (Kensington North), W. B. Falding (Kensington South), C. G. Bonner (St. Marylebone), H. W. Baker and I. Forbes (Paddington), D. M. Rees (Westminster). The annual dinner of the Association will take place at the Café Royal, Regent Street, on Wednesday, November 28.

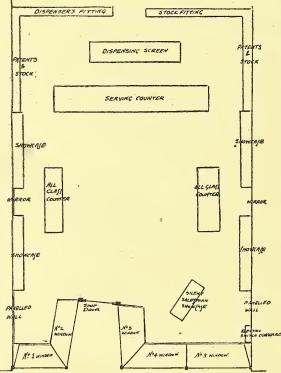
Synthetic camphor.—The Société Alsacienne de Produits Chimiques has decided to increase its capital from twenty-five to fifty million francs to acquire the sole rights of a process for the manufacture of synthetic camphor, and is at present negotiating with foreign firms for the granting of manufacturing licences.

A Modern Pharmacy

In the pharmacy recently opened at Wembley Park by Mr. C. Woollons, chemist and druggist, 28 Kilburn Lane, London, W.10, is incorporated several of the latest ideas in design and fitting. The shop front is in bronzed metal on blue belge marble stallboards, with one large and one



small window, the latter being for special displays. The advantage of metal over wood is easily apparent, since there is no need for repolishing, as the weather improves the appearance. The facia is in the old style of embossed gold letters on glass, the name (as well as that on the shop blind) being printed in the same style and design as Mr. Woollons' letter headings and all stationery. The



lobby is neatly tiled in black and white squares, the whole making a clean and neat appearance. The bases of the windows are of light oak parquetry with sharp black edging, and are elevated on sloping risers with a good space to the window glass to allow for cleaning. The enclosures are of solid mahogany with white arctic glass

doors, and the whole is enclosed with clear glass toplights across to the transom rail. Above are carboys, Mr.
Woollons being a believer in keeping the old-time
chemists' insignia before the public. The window dressing is of the "open" idea, oak pedestals and shelves
being used instead of the fixed lines of standard bars
and rows of shelving. In the interior of the shop the
"arcade" system of fitting is employed. Chemists'
shops often suffer from two disadvantages—the serving
counter usually runs from the shop door at right-angles,
with the drug fitting on the side wall behind. This
causes customers to collect at the end nearest the door,
forming a bunch, with the result that if they are not
served at once they may either go out again or are on
the continual look-out for their tram or 'bus, neither of
which is a selling asset to the chemist. There is also
the consideration that the drug fitting is a sheer waste
for sales purposes, since the shelving above is either
filled with shop rounds or the goods thereon are too far
away for the customer to examine closely. These defects
are avoided by the above system. The serving counter
runs across the shop some 16 feet from the door, with
the result that the customer has to come right into the
shop to make his purchase. On both side walls are show-



cases, the long runs being broken in the centres by full-length mirrors, which both brighten the shop and enhance its appearance. In this case, the shop being wide, the glass counters are placed one on each side in front of the wall cases, thereby making handsome island displays. Behind the serving counter is the dispensing screen, with an extra wide compounding counter, and behind that is the drug fitting proper in the place where it is needed. Both position and design of the dispensing screen are worthy of note. Instead of the usual inaccessibility of the dispenser in the old-fashioned way of layout, by this new method it takes but a second from the dispensing to the serving counter. The lay-out combines show and access, and a strong point is the large area for the public. The two side walls from where the show-cases finish (i.e., the level of the dispensing screen) are fitted with stock fittings of shelving above, and panelled cupboards fitted with shelves below, thereby keeping stock handy and free from dust. The cornice continues right-round the shop from wall to wall. Solid mahogany is used throughout. Two illustrations are shown here, one of the front and one of the interior, as well as a ground plan of the lay-out, which Philip Josephs & Sons, Ltd., shopfitters, 90-92 St. John Street, Clerkenwell, London, E.C., claim is the most economical and advantageous way of pharmaceutical display.

ALKALI MANUFACTURE IN ITALY.—The "Adria Soda" factory at Monfalcone, which was completely destroyed by aerial bombardment during the war, has been rebuilt, aided by a Government loan of 35,000,000 lire. The company is capitalised at 30,000,000 lire, and furnishes employment to 500. The daily production since September 1927 has been at the rate of 100 tons of caustic soda and 50 tons of sodium carbonate.

British Pharmaceutical Conference

We have received the following details of the arrangements which have been made for the meeting of the British Pharmaceutical Conference at Cheltenham, on July 23-27 next :--

Monday, July 23
8 p.m. Civic Reception by His Worship the Mayor of Cheltenham (Alderman C. H. Margrett, C.B.E., J.P.) in the Town Hall, by kind invitation of the Mayor and Borough Council, Refreshments. Dancing 8.30-12.

Tuesday, July 24

10 a.m. Opening Session of the Conference in the Town Hall, to which ladies are specially invited. Official welcome by His Worship the Mayor.

Address by the Chairman of the Conference, R. R. Bennett, Esq., B.Sc., F.I.C., after which the ladies will be at liberty to spend the morning as they wish ing as they wish.
Session of Conference. Scient Luncheon in the Town Hall.

Science meeting. 1 p.m.

2.15 p.m. Session of Conference. Delegates' meeting.
2.15 p.m. Ladies' excursion from the Town Hall to the
Cotswold Villages.
7.30 p.m. Conference banquet in the Town Hall.

Wednesday, July 25

9.45 a.m. Ladies' motor excursion to Gloucester via Cotswold Hills.

Session of Conference. Science meeting.
Session of Conference. Delegates' meeting.
Luncheon in the Town Hall. 10 a.m. 11 a.m.

1.15 p.m.

2.30 p.m. Session of Conference. Science meeting.
4 p.m. Garden party in Pictville Park, Tea, music by the
Band of the 2nd Norfolk Regiment, by kind
permission of the Commanding Officer. The official photograph of the Conference will be

8 p.m. Conference ball in the Town Hall.

Thursday, July 26

9.30 a.m. Session of Conference. Science meeting (if necessary).

10.30 a.m.

10.30 a.m. Closing session of Conference.
12 noon Luncheon in the Town Hall.
1.15 p.m. Motor drive to Malvern Hills via Ledbury. Teanin Council Hall, Malvern. Return via in Council Tewkesbury.

8.30 p.m. Cabaret and dance in the Town Hall.

Friday, July 27

SPORTS DAY.—Golf at Lilleybrook; bowls at Ashbourne Green; tennis at Montpellier Gardens. Those who wish to enter for any of the competitions are requested to apply for entry forms and to return them to the stewards in charge before July 7.

10.30 a.m. Golf—stroke competition. "Edmend White" trophy. Apply to Mr. B. W. Gregory, Beech Cottage, Charlton Kings, Cheltenham.

10.30 a.m. Tennis—doubles. Apply to Mr. H. Burton Clark, Rossmoyne, All Saints Road, Cheltenham.

ham.

10.30 a.m. Bowls—International match for the "London Challenge Cup," at present held by Scotland.
Apply to Mr. W. J. Thomson, Spa Pharmacy, Cheltenham.

Luncheon will be provided. Fr. owls. Tea. Inclusive ticket, 10s. 6d. Friendlies—golf, tennis,

LOCAL EXECUTIVE COMMITTEE

The Local Executive Committee consists of the follow-

ing:—
H. Burton Clark, Chairman.
Councillor Harold Miller, Vice-Chairman.
Clarence H. James, Hon. Treasurer.

CLARENCE H. JAMES, Hon. Treasurer.
Alderman J. Stewart.
Alderman L. L. Stroud.
Mrs. E. H. Bisset, Convener, Housing Committee.
C. K. Gregory, Convener, Publicity Committee.
T. B. Wickham, Convener, Entertainments Committee
B. W. Gregory, Convener, Sports Committee.
W. H. Hill.
W. H. Hampton

W. H. HAMPTON

Percy James, Hon. Secretary.

A lengthy list of licensed and unlicensed hotels, with terms, is included in the official pamphlet announcing the arrangements. Should there be any difficulty in securing accommodation, visitors are requested to apply direct to Mrs. Bisset, Town Hall Bureau, Cheltenham. All to Mrs. Bisset, Town Hall Bureau, Cheltenham. All hotels and boarding houses are within easy distance of the Town Hall (except the Lilleybrook Hotel, which is two miles distant) and near garage accommodation. Each book of tickets for the entire programme costs £2 12s. 6d., but those applied for by July 2 will be subject to a special concession of 2s. 6d. per set—£2 10s. Early application (with remittance) will be much appreciated. Arrangements have been made with the Railway Clearing House whereby visitors to the Conference may travel at reduced rates. at reduced rates.

Glyn-Jones Memorial Fund

We have received from the Pharmaceutical Society of Great Britain the following first list of subscriptions to the Glyn-Jones Memorial Fund, amounting to a total of £351 3s. 4d.:-

£351 3s. 4d.:—			
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Allen & Hanburys,	05 0 0	Ware, Alan H. White, W. Everard, &	1 1 0
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Young & Sons	3 3 0	Robinson J E	1 0 0
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Green Thomas	2 2 0	Braithwaite, Miss	20 0
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Huslam E. M.	2 2 0	Braithwaite J. O.	10 6
Hinksman & Forrest.		Bray, James	10 6
Ltd	2 2 0	Chesterfield, T. M	10 6
Hunter, Robert	2 2 0	Cotes, H. K. Cousins, G. H. Gurnell, W. Hawley, T. H. Heworth, J. H.	10 6
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Legal Reports

Dangerous Drugs Acts.—At Liverpool Police Court, on June 8, Mr. Henry Clarence Thompson, chemist and druggist, West Derby Road, was summoned on a charge of unlawfully dispensing a prescription coming under the Dangerous Drugs Acts and Regulations without taking sufficient steps to satisfy himself that the prescription was genuine. The prescription was made out by William A. Young, a Canadian deportee, who is on remand on a charge of pretending to be a doctor and unlawfully procuring "dangerous" drugs. Dr. House said he had examined Mr. Thompson. He was suffering from angina pectoris and high blood pressure, and it would be a grave risk for him to come to court. The magistrate decided to go on with the case. Mr. Maxwell Fyfe, who defended, pleaded "Not guilty." Mr. John Hogarth Thompson, son of the defendant, said he was present on all the occasions when Young dealt with his father. After a conversation with Young, witness and his father were quite satisfied that he was a bona-fide doctor. Mr. Fyfe submitted that there had been no failure to take reasonably sufficient steps. When a man demonstrated his practical knowledge as a medical man, and said he was from a well-known doctor in the neighbourhood, and patients brought prescriptions from him, it was placing too high a duty on the chemist to expect him to take further steps. The magistrate said that the case was one of considerable importance. In his opinion, the defendant was guilty of gross negligence, and had definitely broken the Regulations. He had taken no steps to find out whether Young was a doctor or not. He would be fined £40, with £5 5s. costs.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

Carlton Pharmacy, Ltd. (P.C.).—Capital £100. Objects: To carry on the business of pharmacists, chemists, druggists, etc. The directors are: H. Schechter and Mrs. E. Schechter. R.O.: 232, Carlton Vale, N.W.6.

Matthew Carmichael, Ltd. (P.C.).—Objects: To acquire the business as formerly carried on by the late M. Carmichael and lately by his executrix at 1103, Pollokshaws Road, 18, Pollok Street, and 259, Kilmarnock Road, Shawlands, all in Glasgow; and to carry on the business of wholesale, retail and manufacturing chemists, druggists, etc. R.O.: 1103, Pollokshaws Road, Glasgow.

Proprietors of Nonn, Ltd., was registered as a "public" company on June 6, with a nominal capital of £135,000. Objects: To acquire the trade mark "Nonn," to adopt an agreement with "Nonn, Ltd.," and to carry on the business of manufacturers and dealers in proprietary and patent articles, medicines, etc. The subscribers are: H. W. Timewell, F. C. Baker, and five others. R.O.: 1 Charing Cross, W.C.

SEEANJAY PHARMACIES, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, manufacturers of and dealers in proprietary articles, etc. The permanent directors are: C. R. Jamblin, accountant, and A. Wainstead, The Lawn, Tudor Road, Kingston Hill, Surrey, chemist and druggist. (The above are respectively director and manager of Constantine & Jackson, Ltd.) R.O.: 9 Lonsdale Chambers, 27 Chancery Lane, W.C.2.

Sternol, Ltd., was registered as a "public" company with a nominal capital of £250,000. Objects: To acquire the benefit of the trade mark "Sternol," and the good-will of the business defined in an agreement with Sterns, Ltd., and hitherto carried on by that company in connection therewith, and to carry on the business of manufacturers, distillers, refiners, purifiers, blenders, importers and exporters of and dealers in petroleum and petroleum products and oils, etc. The subscribers are: F. T. Smith, C. H. Connett, H. C. Edwards, R. O. Read, and three others. Solicitors: Herbert Oppenheimer, Nathan & Vandyk, 1 Finsbury Square, E.C.2.

G. B. Kent & Sons, Ltd., have declared the usual dividend at the rate of $5\frac{1}{2}$ per cent. per annum upon the Cumulative Participating Preference Shares for the six months ended March 31, 1928.

Parkinsons (Liverpool) Chemists, Ltd.—At a meeting, held in Liverpool on June 2, it was resolved that this company be wound up voluntarily. Mr. G. Miller, 19 Castle Street, Liverpool, was appointed liquidator.

A. J. White, Ltd.—The net profit for the year ended March 31, 1928, is £36,659, plus £66,357 brought in. The directors recommend a final dividend of 7 per cent., making 11 per cent. for year, carrying forward £70,017.

The Anglo-Italian Therapeutical Co., Ltd.—At a meeting held at Cardiff on May 31 it was resolved that this company be wound up voluntarily. Mr. A. J. Alexander, 28 Westville Road, Cardiff, was appointed liquidator, and a meeting of creditors will be held at the above address on June 19.

British Glues & Chemicals, Ltd.—Mr. Justice Maugham, sitting in the Chancery Division on June 11, sanctioned a reduction of capital from £2,000,000 to £1,300,000 by writing 16s. per share off the 875,000 issued ordinary shares. Mr. Spens, K.C., said that £770,000 had been lost or was unrepresented by available assets.

Sanitas Co., Ltd., whose ordinary capital is held by the Sanitas Trust, report a net profit of £60,948 for the year to March 31, 1928, being an increase of £581. After meeting the preference dividend, the directors propose maintaining the ordinary distribution at £45,000, or 45 per cent., carrying £3,130 forward, against £1,335 brought in.

Philip Harris & Co. (1913) report a net profit for the year to March 31, 1928, of £15,916, plus £2,947 brought forward. The directors recommend a final dividend at the rate of 9 per cent. per annum (less tax) on 56,200 Preference shares, making 7½ per cent., a dividend of 7½-per cent. per annum (less tax) on 20,000 Ordinary shares, transferring to reserve £10,000, carrying forward £5,492.

British Photographic Industries, Ltd.—The report covers an accounting period of eight months only to December 31, 1927, but the profits of the combined companies handed over to the parent company comprise those of a complete year. The trading of the subsidiary companies for 1927, after providing for income tax, has resulted in a profit of £52,122. This is an increase on the previous year, which showed a profit of £32,579. The accounts show a profit of £52,468. The year's preference dividend to December 31 absorbs £22,548, and the directors have placed £10,000 to reserve. A dividend at the rate of 6 per cent., tax free, is proposed for the period to December 31 on the ordinary shares, leaving to be carried forward £8,987. Sales of the subsidiary companies continued to increase, and necessitated further extensions to the factories at Walthamstow.

Boots Pure Drug Co., Ltd.—The fortieth anuual meeting was held on June 7 at Nottingham, Captain John Boot (chairman of the company) presiding. In moving the adoption of the report (C. & D., June 9, p. 714), the chairman commented on the various items in the balance-sheet and the profit and loss account. The result of the year's trading, he said, is excellent, showing a "record" in customers, sales and profits. As the company reduced the amount set aside for the staff pension fund last year, when profits were lower than the previous year, the directors have transferred £30,000 to this fund out of the year's profits, which is £10,000 more than last year, so enabling the staff to share in the increased profits. In addition, £5,620 interest has been added to the sum standing in last year's balance-sheet, making a total of £148,020. Pensions and leaving gratuities have been granted during last year to the amount of £14,428. This is in addition to the chemists' managers' pension funds, which received £7,577 in current contributions from the retail companies. These items made a total of £57,625 paid or provided for the direct benefit of the employees. Continuing, the chairman said that in the research department a large amount of work has been carried out on a variety of subjects.

For example, vitamin D produced by the irradiation of ergosterol; liver extract for the treatment of pernicious anæmia, and ephedrine for the treatment of hay fever and asthma. For the last two or three years the company have been manufacturing hexyl resorcinol. Reference was made by the chairman to the fact that the company were fined under the Food and Drugs Act for selling certain tablets. He wished to point out that these tablets were the proprietary lines of a certain company, who were alone responsible for the formula, ingredients, packing and advertising, and that they had been reimbursed in the amount of the fine, costs, and expenses by the company. The report was unanimously adopted.

Bankruptcy Reports

Re James McInroy, chemist and druggist, 64 Brunswick Road, Liverpool. The application for the discharge of this debtor was heard on June 8 at the Court House, Government Buildings, Victoria Street, Liverpool. A first and final dividend of 6d. in the £ had been paid on proors for £3,590. The debtor was granted his discharge, subject to two years' suspension.

Re Norman Henry Teakle, produce broker, Dunster House, Mincing Lane, E.C.—An application for an order of discharge was made on June 12 to Mr. Registrar Mellor at the London Bankruptcy Court, on behalf of this bankrupt, who failed in December 1927. The Official Receiver reported that the ranking liabilities amounted to £10,260, and nothing had been, nor was likely, to be realised in respect of the estate. The applicant acted as a market clerk until March 1926, when he and two other persons commenced in partnership the business of produce brokers under the style of Teakle, Nichols & Co. The business was hampered through lack of capital, and on the dissolution of the partnership eight months later the bankrupt, with one of his late partners, started a similar business in the name of Teakle, Nichols & Scott. That business proved successful, but in May 1927, owing to differences, the bankrupt retired from the firm and started on his own account as a produce broker, and was joined by a partner in the following July. He (bankrupt) retired from the firm upon these bankruptcy proceedings being instituted, and was now employed by the firm. He attributed his failure to losses in connection with Teakle, Nichols & Co.; to his having lived beyond his income; and to losses by speculations in produce and foreign currency. The application was opposed by the Official Receiver on statutory grounds, including rash and hazardous speculations, and unjustifiable extravagance in living. Mr. Kingham appeared for the bankrupt, and asked for the discharge to be granted subject to judgment for £100, which would be paid by friends. His Honour upheld the Official Receiver's report, and remarked that the debtor's household and personal expenditure at the rate of £2,000 per annum during the three years preceding the failure was wholly unjustifiable. The discharge was suspended for six months.

Private Arrangement

Luxford & Co., wholesale sundriesmen, 34 Trafalgar Street and 25 Market Street, Brighton.—A meeting of the creditors was held on May 31 at the offices of Mr. A. E. Orbell, accountant and auditor, 6-7 Old Steine, Brighton. The statement of affairs presented showed ranking liabilities of £1,325 17s. 9d., made up as follows: Trade creditors £1,075, cash creditors £71 6s. 9d., and partly secured creditor £179 11s. The total claim of the latter was £1,179 11s., securities valued at £1,000 being held. The assets were estimated to realise £1,445 14s. 6d., from which had to be deducted £38 3s. 4d. for preferential claims, leaving net assets of £1,407 11s. 2d., or a surplus of £81 13s. 5d. The assets consisted of stock £1,288 5s. 6d.; fittings, utensils, etc. £17 9s., and book debts £252 11s. 6d., valued at £140. A resolution was passed in favour of the matter being dealt with under a deed of assignment with Mr. Orbell as trustee, together with a com-

mittee consisting of Mr. H. A. Fordham, and the representatives of Messrs. P. H. Galloway, Ltd., and the Anglo-Italian Co. The following are among the creditors:—General Kaputine Syndicate, Ltd., £42; Galloway, P. H., Ltd., £55; Hampshire, F. W., & Co., Ltd., £22.

Business Changes

Numol, Ltd., have removed from West Walls to 46.50 Elswick Road, Newcastle-on-Tyne.

Mr. J. H. Williams, chemist and druggist, is opening a new pharmacy at Priory Road, Anfield, Liverpool.

Mr. A. B. Hutcheon, chemist and druggist, has taken over the business of Mr. Percy Hawley, chemist and druggist, High Street, Cheltenham.

The Graesser-Monsanto Chemical Works, Ltd., announce that from June 11 their sales headquarters will be established in London, where they are opening new offices at King William Street House, Arthur Street, E.C.4. All sales matters will, in future, be concentrated at the new offices instead of being handled from Ruabon and London, as in the past.

Mr. R. Sharples, chemist and druggist, and Mr. R. D. Anderson, chemist and druggist, have taken over the interests of Mr. A. E. Hobbs, Ph.C., in the chemists' businesses at 33 Mount Pleasant, 20 -St. John's Road, and 25 Grosvenor Road, Tunbridge Wells, and will continue the businesses under their present styles of A. E. Hobbs, Ltd., and Sells and Son (Tunbridge Wells), Ltd.

Wills

Mr. Albert Porter, of Oakleigh, Ross-on-Wye, a retired chemist and druggist, left estate of the gross value of £5,989, with net personalty £3,200.

Mr. James Quarmby Mills, of Beresford Road, Rusholme, Manchester, chemist and druggist, left estate of the gross value of £1,659, with net personalty nil.

Mr. Joseph Pearson Walton, of 9 Phœnix Avenue, Port Talbot, analytical chemist, who died on March 20, left estate of the gross value of £3,359, with net personalty £1,708.

Mr. Henry Hunter, of 2 Lucknow Villas, and 5 Roper Street, Whitehaven, Cumberland, chemist and druggist, who died on October 22, aged eighty-three, has left £5,604 14s. 10d., with net personalty £4,207 18s. 10d.

MR. ALBERT PORTER, of Oakleigh, Ross, Herefordshive, late of High Street, Ross, retired chemist and druggist, who died on February 15 last, aged seventy-five years, left estate of the gross value of £5,989 18s. 4d., with net personalty £3,200 6s. 10d.

Rev. Alexander James Marshall, minister of the parish of Monimail, Fife, and at one time a chemist and druggist, having passed the Pharmaceutical Society's examination in 1886, died on December 3 last, leaving personal estate valued at £2,665.

Mr. Thomas James Thomson, of 30 Hayne Road, Beckenham, Kent, formerly of The Chestnuts, Staplegrove Road, Taunton, manager of the London branch of Lever Bros., Ltd., who died on March 2 last, aged fifty-six years, left estate of the gross value of £4,868 15s. 5d., with net personalty £4,765 12s.

SIR R. A. ROBINSON, D.L., J.P., Whitby, Yorks, who died on April 28 last, left estate of the gross value of £23,215 0s. 2d., with net personalty £21,529 9s. 2d. Probate of his will has been granted to his sons, Dr. Henry Robinson, M.D., and Richard Atkinson Robinson. To his wife he left £200, his household and personal effects, consumable stores, etc., absolutely, and the use for life of his residence and the income from a trust fund of £8.0.0. He left £100 to each grandchild, and the residue of his property to his children or their issue in equal shares.

Sporting Events

A CRICKET match was played at Addiscombe on June 8 between the Croydon Pharmacists' Association and London (South-Western) Association, the game being won by the former, as will be seen from the following details:—Croydon, 101 (Owen 35, Rayner 33, Russell 16); South-Western, 69 (Netherway 19, Mason 18, Duncan 10). Owen and Rayner also bowled well for Croydon, and Brook proved the most successful for South-Western.

The London Chemists' Golfing Society held a meeting at the West Surrey golf course on June 10. The Burgovne prize was won by Mr. J. Deas, the Sanger cup by Mr. F. A. Bell, and the Society's prize by Mr. D. M. Rees. The following are some of the leading scores:—

Burgoyne Prize	Sanger Cup
J. Deas 92—16=76 R. Coates 93—16=77	B. Bell 1 down W. Owen 2 down
E. Geddes 90—12=78 W. Owen 87—7 = 80	G. Beaton 2 down D. Rees 4 down
G. Beaton 94—13=81	Society's Prize
W. Cane 101—18=83	D. Rees 88—12=76
E. Deeth 94—10=84 D. Parry 84—10=84	
THE annual rink competit	ion of the Glasgow Pharmacy

The annual rink competition of the Glasgow Pharmacy Club, bowling section, for the Cartwright trophy, took place on June 5, on Wellcroft bowling green, Crosshill. The weather was ideal, and six rinks took part in the game. The winning rink (Messrs. W. J. Moffat, skip, F. B. Gray, A. W. Calder, and W. Seivwright) had 50 shots against Mr. D. Black's rink, 6 shots. Other results were:—Mr. H. P. Arthur's 22 against Mr. D. G. Mackenzie's 9, and Mr. J. Logan's 21 against Mr. H. Gray's 6. At the presentation of prizes (ladies' umbrellas, the gift of W. B. Cartwright, Ltd., Leeds) to the winning rink, Mr. D. Black, convener of the bowling section, presided. The prizes were handed over to the successful competitors by Mr. Rennie (of Messrs. Cartwright). Mr. Moffat proposed a hearty vote of thanks to the donors of the prizes, and Mr. Rennie briefly replied.

The annual outing for the Irish agents of the Nyal-Co., Ltd., took place on June 6. The agents met in Dublin in the morning and drove to Malahide. After lunch a golf competition for the Nyal cup was held. Those who did not play were able to participate in a putting competition and other amusements. The first three places in the golf competition were secured by Mrs. Bolger, Carlow, with a round of 63 (36); Mr. J. F. Corr, Carlow, 63 (17), and Mr. A. F. Roche, Dublin, 75 (14). The tie between Mrs. Bolger and Mr. Corr for first place was played off, and Mrs. Bolger was declared the winner by one stroke. Mr. F. J. Fitzpatrick, president of the Pharmaceutical Society of Ireland, presented the prizes, and in the course of a speech referred in appreciative terms to the action of Mr. Lomax, the managing director of Nyal Co., Ltd., who had come to Malahide to superintent the arrangements. Mr. Lomax briefly replied.

The seventh annual sports meeting of the Eno Recreation Club (J. C. Eno, Ltd., London, E.C.4) was need at the Eno Sports Ground, Catford, on June 9. One of the most interesting events of the day was the push ball contest, in which the Works played the City Office, the latter winning by four points to two. The Allhusen cup for men's team work was won by the City Office with sixty-one points against the Works' forty-six points, and the Swinfen-Broun bowl for ladies was won by the City Office. The Ritchie Toronto championship cup for gentlemen was won by Mr. G. Goding with six points, and the Ritchie New York championship for ladies by Miss A. Halliday, also with six points. The second championship prizes, presented by Major F. Vanden Heuvel and Colonel Swinfen-Broun, were won by Mr. H. Ayres (Works) and Miss J. Harnwell (City Office). Mr. Bernard Drake, solicitor to the company, in the course

of an interesting speech, referred to the long association of Colonel and Mrs. Swinfen-Broun with the house of Eno, and mentioned that they had travelled specially from Lichfield in order to be present at this popular annual event. The prizes were presented to the success ful competitors by Mrs. Swinfen-Broun, one of the two daughters of the late Mr. J. Crossley Eno. The company to the number of over 300 were entertained to luncheon and tea in two large marquees, and after the conclusion of the sports programme dancing took place in the pavilion until a late hour. Mr. T. H. Draper, honorary secretary, and a committee were responsible for the excellent arrangements.

The annual competition of the Scottish Chemists' Bowling Association for the Ayrton, Saunders trophy was held at Dundee on June 6. Sixteen rinks took part, the winning one comprising George Jarvie, Kirkintilloch (skip), George Robertson, George McNaught, and Alexander McLennan. Further details are as follows:-J. S. Stewart, Edinburgh
J. M. Dickson, Armadala G. Jarvie, Kirkintolloch 27 J. C. Murdoch, Glasgow 26 dale 14 J. B. MacLaren, Kirk-J. H. Tainsh, Edinburgh
A. M. Ritchie, Montrose
J. T. Simpson, Glascaldy 17
J. R. Milne, Dundee 17
D. McGeorge, Coupar 24 Angus 12 C. B. Lee, Glasgow ... 14 W. S. Culbert, Airdrie 18 J. Carmichael, Leslie 16 H. G. Gray, Glasgow 20 H. G. Gray, Glasgow 20 W. S. Culbert, Airdrie 18 The annual meeting of the Association was held after the game. Mr. T. Bayne, president, occupied the chair, and called upon Mr. Alec. Calder, representative of Ayrton, Saunders & Co., Ltd., to present the prizes to the winning rink. Mr. Jarvie thanked Mr. Calder for presenting the prizes, and Messrs. Ayrton, Saunders as donors. Mr. Bayne presented the prizes to the runners up. Mr. J. T. Simpson, who had been secretary for seven years, was presented by Mr. Bayne with a memento from the members of the Association. The election of office-bearers resulted as follows:—President, Mr. J. T. Simpson, Glasgow; Vice-President, Mr. C. R. Brown, Edinburgh; Secretary and Treasurer, Mr. J. S. B. Heddle, Edinburgh; Committee, Messrs. Morrison, Bannockburn, J. Hogg, Stirling, and Mr. Wm. Seivewright, Glasgow. It is hoped to play next year's game in Stirling. in Stirling.

Fifty competitors took part on June 7 in the tenth annual competition for the McMullan challenge golf cup, which is confined to members of the Ulster drug trade, on the Royal County Down Club's championship links at Newcastle. The play consisted of a preliminary stroke round of eighteen holes in two classes, A and B, the two players returning the lowest net score in each class playing a nnee-holes match semi-final, under handicap, with an eighteen-hole final. In Class A, George W. T. McCann (Portrush) and Charles O'Hagan (Newry) qualified for the semi-final, in which the former got the verdict by the narrow margin of one up. In class B Hugh Marks (Belfast) had to play no less than three holes before he qualified for the final at the expense of J. Balmer (Bangor). The social side had eaten so much into the time at disposal that it was decided to defer the final to a later date rather than prolong the play into the late evening. The competitors and friends were entertained to luncheon and tea in the club-house by Mr. Fred R. Moore (Thomas McMullan & Co., Ltd.). who presided. At the close of the day a cordial vote of thanks was passed to Mr. Moore for his generosity, this being proposed in felicitous terms by Mr. Horatio Todd. A similar compliment was paid to Mr. W. J. Rankin, jun., honorary secretary, for his hard work in connection with the tournament; and on the motion of Mr. A. W. Mann, seconded by Mr. Charles O'Hare, the captain and council of the Royal Connty Down Golf Club were warmly thanked for the use of the links. Subsequently, the annual meeting of the Ulster Chemists' Golfing Association was held. The officials were unanimously reelected, and on the motion of Mr. Samuel McLaughlin, seconded by Mr. D. A. Taylor (president of the Ulster Drug Trade Association), the name of Mr. Fred Moore was added to the list of vice-presidents.

Narcotic Plants

PROFESSOR W. E. DIXON, of the Pharmacological Laboratory, Cambridge, delivered an address on "Narcotic Plants" in the Chelsea Physic Garden, London, S.W., on June 7. The lecture was an open-air one, illustrated by plant specimens, and was given in connection with the Chadwick Public Lectures. In the absence of Sir William Collins, through illness, Sir James Crichton Browne presided. In opening, Professor Dixon pointed out that in the time at his disposal it would only be possible to skim the surface of the subject. He remarked that plants came into existence on the earth myriads of years before animals. It was therefore certain that their excretions, their storage of food products and their vitamins were not elaborated in the interest of animals (including man) but for the plants' own benefit. Animals subsequently lived upon plants and developed in order to make use of such products as were already formed in the plants. Sometimes both plants and animals formed substances or excretions of the same nature. All the vertebrate animals secreted adrenalin, a noted cure for asthma, while some plants elaborated similar substances, such as ephedrine. Man learned the use of plant excretions, often alkaloidal in nature, through thousands of years of experiment on himself, and then only imperfectly. The Doctrine of Signatures suggested that an allbeneficent Deity had stamped on plants, by some colour or shape, a resemblance to a body organ, and hence our liverwort, heartsease, lungwort, etc. Rational treatment was much aided by the revelation that the human body elaborates its own drugs, stores them up, and gives them out to the tissues to meet the body needs. These drugs stored in our body correspond in every way to many plant alkaloids and each has a definite action. The lecturer then spoke of the effect of environment on the constituents of plants: the characteristic properties of the resin from Indian hemp are acquired when the plant is grown at a high altitude, while, if grown on the plains, it is no longer poisonous; a poppy grown in this country does not elaborate morphine in the latex.

THE ACTION OF NARCOTICS

Narcotics with a stimulant action improve the association of ideas in the brain. Indian hemp produces a narcotic effect on the central nervous system. People crave for something which will exert a mild narcotic action and relieve the strain of civil life. In Northern India the resin exuded is mixed with tobacco and smoked, or taken in the form of bhang as a drink. native then passes into a state of languid ease, accompanied by an elated sense of superiority. There is also induced an altered relationship to time and space, so that minutes become hours and feet furlongs. The essential oils in plants, used in perfumery and flavouring, are sometimes narcotic in nature. Oil of nutmeg is stimulant, but to eat a whole nutmeg would probably result in convulsions. With tobacco the leaves must first be dried and cured before the flavour comes out. Nicotine has a calming effect on the supersensitive, because it blunts the higher faculties of the mind, while on the other hand the dull and apathetic are stimulated by it. The pleasure of smoking is due to the narcotic action, although it is in a sense a ritual. The carbon dioxide and carbon monoxide inhaled in smoking have, however, the effect of reducing the efficiency of the red corpuscles of the blood. The Indians of South America, by chewing coca leaves, can perform tasks without fatigue; but experiments with cocaine in the Alps have not led to results of the same kind. Drugs as they occur in plants are comparatively harmless, but when the chemist isolates the chief constituents some very potent substances are obtained. Mescal, a cactus in South America, not only intoxicates, but induces the most brilliant colour visions when chewed. There are three methods in which opium is used: (1) mastication; (2) smoking, which is not a vicious habit and is only indulged in by people living under squalid conditions; (3) injection. In this country the habit is not at all of serious dimensions, as it is estimated that about 1 gr. per head per annum is the consumption. In America, however, it is as high as 40 gr. per head, which would indicate that it is there indulged in to satisfy vicious tastes and not simply in a legitimate Neurotics frequently resort to drugs and become addicts in order to make themselves normal. In conclusion, Professor Dixon dealt with the methods that should be followed in curing drug addicts: treatment was the one way. In the old days lunatics were treated as criminals.

A Retail Chemist's Annual

Even chemists are sometimes cursed with lines that are difficult to get rid of, and no doubt some of the goods are apt to become slightly shop-soiled; but one hardly expects to see a chemist's circular headed "Old stocks must be cleared to make room for new season's goods." The dignified and restrained circular, so long as it is not an biguous, makes a greater appeal than the circular of the "sensational" type, because the hollowness of the latter is quite apparent to the buying public. It is much better to say frankly "We are after your custom" than to say insidiously "We are giving you something," because the first is feasible and therefore truthful, while the second is but a half-truth, and is at least open to suspicion. The least intelligent of the buying public know that the trader is not in business. at least open to suspicion. The least intelligent of the buying public know that the trader is not in business for philanthropic reasons, and that, if he gives, it is only to enable him to take more than he gives. Then why not boldly assert that "It is your custom we want, and we won't be happy till we get it."

The calling of the chemist makes it necessary for

him to be restrained and dignified in his advertising, and consequently he has not the same temptation as other retailers to indulge in extravagant and sensational announcements. He cannot, for example, draw specific attention to shop-soiled and slow-moving goods, using these as a sale draw by offering them at greatly reduced prices. All the goods offered by the retail chemist must be new and fresh, whether offered during a sale or at any other time. The bold declaration of a retailer that he is out to extend his circle of regular customers is a challenge to the buying public, and it is generally accepted. The sale draws people to the shop, but the retailer must justify his statements if he would keep them. On the people who take advantage of price reductions and then refrain from making further pur-chases the retailer loses money, and therefore it is for him to see that they come again, when normal

prices rule.

During the sale period the price reduction is the draw, but the customers have got to be so satisfied with their purchases that they consider them well worth with their purchases that they consider them well worth the normal prices charged, so that they will continue to come when the sale is a thing of the past. It is this which constitutes the challenge. The retailer says (in effect), "This week I will sell you a shilling article for ninepence, but next week I shall expect you to pay the shilling for a similar article." The customer retorts (in effect), "I will pay ninepence for the article this week, but you need not expect me to return next week unless I am convinced that the article in question is well worth a shilling." It is the duty of every retailer to do all in his power to increase his circle of regular customers; and if the offer of special inducements at given times will achieve this, then the course is to be commended. It is not possible, of course, to persuade all the people visiting the shop during the sale period to become regular customers, but sufficient may be enrolled to warrant the effort being during the sale period to become regular customers, but sufficient may be enrolled to warrant the effort being termed successful. A chemist's sale is still rare enough to cause comment, but no doubt a few years hence the idea will have become more general. It is to be hoped, however, that the restrained method of advertising will still be favoured, for although of late the range of goods stocked by retail chemists is so extensive as partially to destroy the seclusiveness of the pre-war chemist's shop, the shop still is, in the eyes of the briving public, more closely associated with the skilled buying public, more closely associated with the skilled professions than with commerce, and it would be a pity were this idea dispelled by the selling tactics of the chemist.—W. J. H. (8/5).

Presentation to Mr. E. S. Waring

A LUNCHEON in celebration of Mr. E. S. Waring's seventieth birthday and of the fact that he has been forty-four years with Boots Pure Drug Co., Ltd., was given at the Victoria Station Hotel, Nottingham, on June 7, Mr. John Boot, J.P., chairman of the company, presiding over a representative assembly. After the luncheon Mr. Boot read a telegram of congratulation from his father, Sir Jesse Boot. Continuing, Mr. Boot said that it was an achievement for anybody to live to be seventy, but it was a greater achievement to reach that age in the condition of health which Mr. Waring enjoyed, and a still finer achievement that after working for over forty-four years with one firm, his felow workers in that firm to the number of 7,507 should subscribe for a testimonial. A representative committee had selected for presentation to Mr. Waring: a grandfather clock in an old English yew case, carved by Mainwaring, and dated 1785; an illuminated album containing the signatures of all the subscribers; an oil painting of Mr. Waring by Mr. Denholm Davis; a gramophone with two bureaux and a library of records; a canteen of cutlery; a biscuit, butter and cheese silver dish. In addition there was, as a memento for Mrs. Waring, a gold wristlet watch and jewellery. Mr. Boot explained that it was Mr. Waring's wish that the

oil painting should hang in the offices, where the subscribers to the testimonial will be able to see it. The address accompanying the album included the following passage :-

"There are amongst us those who have had tho privilege of long association with you, whilst others have more recently come into this relationship, but as director, helper, pharmacist and friend you have won a place of very real affection in all our hearts. We gladly pay tribute to the unfailing courtesy and Mr. E. S. Waring ready sympathy which we have always met with at your hands. You have followed a course of consistent, devoted service in your life's

vocation, and it is with pride we recall that your intimate knowledge of the laws concerning pharmacy and poisons has given you such a position of authority in the world of British Pharmacy that your aid has been sought on national committees dealing with these matters."

The toast of Mr. and Mrs. Waring's health was drunk in cordial fashion, and there were vocal honours for Mr. Waring, who received the testimonial at the hands of Mr. John Boot. In the course of an eloquent reply, Mr. Waring said he was afraid that since 1900, when the Boots scholarships were started, he had had to disappoint many a young man. Mr. Harvey and he continued these examinations for fifteen years, and the whole scheme had been a wonderful success. For years, of all the young men picked from these examinations, there was 100 per cent. of passes in the Qualifying examination almost at the first time of asking. There were six people sitting at that table whose years of service amounted to 250. (Loud applause.) He ventured to think that service like that had given the company and its business sound root. It not only spoke well for those who had done such long service; it said volumes for those who were at the head of affairs.

Polish turpentine production.—Forest resources have not been exploited to any great extent in Poland, and the vast quantities of wood suitable for dry distillation have not hitherto been utilised. Recently a combine of Polish turpentine and dry distillation firms, with a head office in Warsaw, has been formed, with the object of increasing turpentine production.

Personalities

SIR ERNEST RUTHERFORD, O.M., has been awarded the Albert medal of the Royal Society of Arts "for his pioneer researches into the structure of matter."

Mr. Norman E. Manners, son of Mr. Samuel Manners, M.P.S., Crestwood, New York, U.S.A., is among the artists whose work is exhibited in this year's Royal Academy.

Mr. Victor Cofman, B.Sc., chemist and druggist, consulting chemist to the research department of the Du Pont de Nemours Co., gave addresses on colloids at a symposium held at Clemson College, South Carolina, U.S.A., on April 27-28.

· MR. K. B. MISTRY, resident director of the Bombay office of Martin & Harris, Ltd., will be visiting Europe this year and was due to arrive in London about the first week of June. His address will be c/o Levetus, Ltd., 194 Bishopsgate, E.C.2.

THE "South Western Star" announces that Mr. William Bennett, chemist and druggist, has been adopted as a prospective Parliamentary candidate for South Battersea. Details of Mr. Bennett's career were given in The Chemist and Druggist, 1922, II, 631.

WE had a pleasant chat the other day with Mr. J. Grantley Tingle, Ph.C., whose name is no doubt well-known to many of our readers. Mr. Tingle has had an adventurous career since he left London thirty-three years ago. He was for some years in the Pacific Islands. but eventually settled in Sydney, New South Wales, where he has built up a good pharmaceutical connection. He is in England on holiday for a few months, and letters may be addressed to him care of THE CHEMIST AND DRUGGIST.

A British Spa with a Future

On May 19 the new Braceborough Spa House and Grounds were officially opened, and it is to be hoped that the energetic push then given to this enterprise by a distinguished gathering may provide momentum for a long and vigorous existence. Braceborough Water possesses two qualities necessary to success—it fulfils its claims, and it has neither rival nor substitute. Here is the analysis in detail :-

				Gr.	per gal
	bicarbonate		•••		30.39
Calcium	sulphate		•••		6.62
Magnesii	ım sulphate				2.26
Sodium	chloride		· • • •		1.85
Silicic a	cid				0.13
Free car	bon dioxide	(equiva	lent to	4.2	
	per gallon)				2.10

This water's high calcium content, aided by the free carbon dioxide, indicates its use in blood-deficiency diseases and skin complaints. Dr. Alfred Eddowes, who has for years investigated the claims of Braceborough Spa, mentions the water as a cure for psoriasis. He has also found that the water brings about rapid cicatrisation of ulcers.

Ambitious plans have been made to exploit the commercial possibilities of the Spa. A golf course, tennis courts, a bowling green and a large open swimming bath will soon cluster round the hotel and pump room, which will embody the latest ideas in heating and ventilation, and will have rooms devoted to actinic treatment, natural and artificial. The bottling plant's present maximum figure is 20,000 bottles weekly. The doctors who attended the inaugural ceremony listened with critical attention to all that was said by the sponsors of the venture. Among them were Sir William Maurice Abbot Anderson, Dr. Henry Semon (physician for diseases of the skin at the Royal Northern Hospital and Hampstead General Hospital), Dr. Harold Pritchard (senior physician, West London Hospital), Dr. Knuthsen (physician, London Skin Hospital), Dr. Eddorse (consulting physician, London Skin Hospital), Dr. Eddorse (consulting physician), St. Lohn's Hospital), Dr. Knuthsen (physician, London Skir Hospital), Dr. Eddowes (consulting physician, St. John's Hospital for Skin Diseases), Dr. and Mrs. E. A. Hutton-Attenborough (Stamford), Lieutenant-Colonel E. A. R. Newman, Dr. H. Braithwaite (Market Deeping), Dr. E. S. Edwards (Empingham), Dr. G. B. Gill (Leicester), Dr. J. N. C. Ford, and Dr. Stedman Poole (Leicester).

Trade Notes

Monsol is advertised in this issue by Thomas Christy & Co., 4-12 Old Swan Lane, London, E.C.4.

BLACKWELL, HAYES & Co., LTD., 54-58 Moor Street and Albert Street, Birmingham, have issued a new price list covering their wide range of flavours, fruit essences, colours and essential oils.

PRICE REDUCTION.—R. V. Wagner, 33 Brooke Street, London, E.C.1, is offering during June, July and August drug bottle caps at reduced prices for contracts of 100 gross and upwards per annum.

Sole AGENCY.—The County Perfumery Co. branch of the County Chemical Co., Ltd., Birmingham, who are the concessionaires in Great Britain and Ireland for the perfumery of Maison Lydès, Paris, are desirous of appointing chemists as sole agents for these products.

ACOUSTIC APPARATUS.—The Acoustic Supply Co., Ltd., 5-4 Eden Street, London, N.W.1, call attention in their advertisement in this issue to chemists' opportunities for supplying hearing appliances for the deaf. Agencies for the company's instruments are open in several towns.

Bottle capping liquid.—British Celanese, Ltd., 8 Waterloo Place, London, S.W.1, have sent us a sample of the liquid they supply for capping bottles. The preparation, which gives off an inflammable vapour, is of a syrupy consistence and admirably suited for the purpose, the "corked" bottles we dipped received a fine opaque coating, which soon dried in a current of air, the cap conforming pried to the charge. conforming nicely to shape.

KOOLETTE THIRST QUENCHES.—Meggeson & Co., Ltd., Bermondsey, London, S.E.16, have introduced under this title a pleasantly acidulated pastille. The thirst quenchers are neatly packed in tins of a size suitable for the pocket or the handbag, and they should appeal to a large public. Particulars as to prices will be found in the company's advertisement, and samples of the pastilles will be sent on application.

MEDICAL LITERATURE.—H. R. Napp, Ltd., manufacturing chemists, 3 and 4 Clement's Inn, Kingsway, London, W.C.2, have available for distribution literature relating to a number of products for which they are the agents in Theosol, and Ephetonin. The last-named is a synthetic ephedrine for the oral treatment of asthma and hay fever. Copies of any of these publications will be sent post free to chemists on request.

CAPROKOL.—The British Drug Houses, Ltd., 16-30 Graham Street, City Road, London, N.1, have issued a booklet on "Caprokol Therapy." The publication is designed to direct attention to the importance of observing the conditions necessary to obtain optimum results, to bring to the notice of physicians some clinical notes re-ceived from users, and to point out new fields wherein Caprokol promises to be even more valuable than hitherto. C. & D. subscribers can obtain a copy on application.

Recent Patents

Abstracts of specifications of recentity-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Red Oxide of Iron.—A solution containing a ferrous salt is treated with black oxide of manganese or any other non-gaseous oxidising agent, with or without the addition of lime, and the mixture heated under pressure to produce a red or purple-red oxide of iron, suitable for use as a pigment. (Storer & Taylor, Birmingham. 290,421.)

Barbituric Acid Hypnotic.—Isopropyl-barbituric acid is dissolved in caustic soda solution and isopropenyl propargyl bromide, dissolved in alcohol, added. The solution is allowed to stand, and after the alcohol has been distilled off in vacuo, isopropenyl-propargyl isopropylbarbituric acid remains, which is a new compound efficient of the standard of cacious as a hypnotic. (I. G. Farbenindustrie. 285,598.)

Trade-mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1928, p. 329.

(From "The Trade-marks Journal," May 23, 1928.)

Pear-shaped design incorporating lady's head; for medicinal chemicals (3) and for perfumery, etc. (48). By Warren Pharmacal Co., Ltd., 5 New Bridge Street, London, E.C.4. 489,852/853. (Associated.)
"Dolfar"; for perfumery, etc. (48). By D. Simon, 7 rue des Pyramides, Paris. 490,303.

(From "The Trade-marks Journal," May 30, 1928.)

"Johnson's"; for disinfectants, etc. (2), medicated articles (3), goods (11), indiarubber sheeting, etc. (40), and for toilet articles (48). By Johnson & Johnson (Gt. Britain), Ltd., 106 Golden Lane, London, E.C.1. 484,230/231/232/

Ltd., 106 Golden Lane, London, E.C.1. 484,250/251/252/253/254. (Associated.)
"Noral"; for seed dressings and insecticides (2).
"Grodyl"; for chemicals (2). By Bayer Products,
Ltd., 31-34 Basinghall Street, London, E.C.2. 488,742;

Ltd., 31-34 Basinghall Street, 20. 490,537.

"Genopyne"; for disinfectants (2). By H. & M. Patents, Ltd., 11 and 12 Carlton Chambers. Albion Street, Leeds.

YRIDIUM'; for antiseptic medicines (3). By The Pyridium Corporation, 20 East 12th Street, New York,

dium Corporation, 20 East 12th Street, New York, U.S.A. 487,395.

"DIAMALT"; for medicinal chemicals (3). By H. A. & D. Taylor, Ltd.. The Maltings, Sawbridgeworth, Hertfordshire. 487,573. (Associated.)

"PEDOIDS"; for medicinal chemicals (3). By Boots Pure Drug Co.. Ltd., 37 Station Street, Nottingham. 489,451.

"REGENT"; for remedies for coughs, colds. influenza and corns (3). By L. Piper, 248 London Road, Sheffield. 489,957.

"CODIKON" forming cone-shaped design: for medicinal chemicals (3) and for perfumery, etc. (48). By Cody's Cash Chemists. Ltd., 126 Stephendale Road, Fulham, S.W.6. 490,173/174. (Associated.)

"KEZ": for sanitary towels (11). By I. B. Kleinert Rubber

S.W.6. 490,173/174. (Associated.)

"KEZ": for sanitary towels (11). By I. B. Kleinert Rubber Co., 485; Fifth Avenue, New York, U.S.A. 490,626.

"PHOTOMATON": for all goods (39). By Photomaton Parent Corporation, Ltd., Pinners Hall, Austin Friars, London, E.C.2. 490,035. (Associated.)

"SUNBEAM": for hot-water bottles (40). By Southall Bros. & Barclay, Ltd., 19-21 Lower Priory, Birmingham.

489,043.

"Cox's Non-Alcoholic Wine" on hexagonal label device; for non-alcoholic wine (42). By Cox & Co., Osborno Works, Brandon Road, King's Cross, London, N.7.

Works Brandon Road, King's Cross, London, N.7. B485,309.

"LOFRESCO": for an essence, flavouring or extract (42). By The London Essence Co., Ltd., 53 Glengall Road, Peckham, S.E.15, 490,237. (Associated.)

"VITACRUSH": for flavourings (42) and for mineral waters, etc. (44). By Barnett & Foster, Eagle Wharf Road, London, N.1- 489,581/582. (Associated.)

"Max Factor's" on name plate device including fantastic heads ("Max Factor's" disclaimed); for goods for toilet use or for theatrical make-up (48). By M. Factor, 326 South Hill Street, Los Angeles, California, U.S.A. 485,805. 485.805.

RYLCREEM ": for toilet creams (48). By The County Chemical Co., Ltd., Bradford Street, Birmingham. "BRYLCREEM"

487,499.
"VITABATH"; for bath salts in cubes (48). By H. Bronnley & Co., Ltd., Warple Way, Uxbridge Road, London,

& Co., Ltd., Warple Way, Uxbridge Road, London, W.3. 489,195.

"YULANA": for shaving, hair and tooth brushes, and for combs (50). By H. M. Klarnett, Ltd., 5 Houndsditch, London, E.1. 490,296.

(From "The Trade-marks Journal," June 6, 1928.)

(From "The Trade-marks Journal," June 6, 1928.)

"Lanasete"; for all goods 1). By Society of Chemical Industry in Basle, 141 Klybeckstrasse, Basle, Switzerland, 489,982. (Associated.)

"Barkite"; for chemical solvents (1). By Howards & Sons, Ltd., Uphall Road, Ilford. 490,674.

Reproduction of oil painting of the late J. M. Smith; for chemicals (2). By J. M. Smith & Co. (London), Ltd., Hampton Chemical Works. Arthur Street, Old Kent Road, London, S.E.15. 489.881

"CAFOR"; for veterinary chemicals (2). By D. L. Crawford, 60 Lorne Street, Leith, Midlothian, 490,487.

"Karmacee" for plasters (3). By Johnson & Johnson (Gt. Britain), Ltd., 106 Golden Lane, London, E.C.1, 489,374.

Births

Notices for insertion in this column must be properly authenticated.

Dyer.-At the Norman Rae Nursing Home, Shipley, on June 10, Kathleen Mabel (née Metcalfe), wife of F. J. Dyer, B.Sc., A.I.C., Ph.C., of Bradford Technical College, of a daughter (Audrey Jean).

Gosling.—At 6 North Road, Clapham Park, London, S.W.4, on June 6, the wife of Charles W. Gosling, Ph.C., London College of Pharmacy, of a son.

PHILLIPS.—At The Moordown Pharmacy, Bournemouth, on June 8, Winifred, wife of Norman K. Phillips, chemist and druggist, of a daughter (Monica Winifred).

SIMPSON.—On June 4, the wife of Dundas Simpson, chemist and druggist, 18 Ailsa Road, Westcliff-on-Sea (Dundas Simpson & Co., 1 Crutched Friars, London, F.C.3), of a daughter.

Marriages

COURT—KESTERTON.—At St. John's Church, Wallasey, on June 6, by the Rev. Dr. E. L. Bond, Reginald, only son of the late Mr. Isaac W. Court, Upton, Birkenhead, and Orrell Park, Liverpool, to Dora Joyce, youngest daughter of Mr. W. Kesterton, M.P.S., Martin's Lane, Wallasev.

MILNER—GARDENER.—On June 11, Edward William Milner, son of Mr. J. Milner, chemist, Greenwich, London, S.E., to Peggie Gardener, Oxford.

Wells—Harris.—At St. Mary's Church, Hampden Park, Eastbourne, on June 4, Thomas Francis Wells to Dora, daughter of Major G. W. Harris, J.P., chemist and druggist (Walker & Harris, chemists), Canterbury.

Silver Wedding

LENNOX—ELLIOT.—At Edinburgh, on June 12, 1903, by the Rev. John Lennox, O.B.E., M.A. (brother of the bridegroom), and the Rev. James Gilmour, B.D., Gateshead-on-Tyne (uncle of the bridegroom), James Lennox, pharmacist, North Kelvinside, Glasgow, to Mary Elliot, Edinburgh.

Deaths

Asquith, managing director of the British Association of Glass Bottle Manufacturers, Ltd., and a director of the Association of Glass Bottle Manufacturers of Britain and Ireland, aged seventy-four.

BLYTON.—At his residence, "Swinderby," Park Lane, Kersal, on June 9, Mr. John Henry Blyton, Ph.C., proprietor of Blyton, Astley & Co., manufacturing chemists, Eagle Laboratories, Lower Broughton, Manchester. The business owned by Mr. Blyton was founded in 1867 by Mr. Richard Twemlow, chemist and druggist, as a manufacturing department of his retail business in Upper Brook Street, Manchester. In 1885 this department was purchased by Mr. T. B. Blyton, Ph.C., Mr. J. H. Blyton's elder brother, and was transferred to Lower Broughton, with the style of Thomas Bage Blyton & Co. Mr. F. A. Astley, Ph.C., was admitted to partnership eight years later, and the present firm name was adopted. Mr. J. H. Blyton (who, like his brother, had retail experience with Mottershead & Co., Exchange Street) passed the Major examination in 1897, and joined the firm as a partner in 1898. Mr. Astley died in 1902, and Mr. T. B. Blyton in 1910; Mr. J. H. Blyton then became the sole

Marfitt.—At 94 Regent Road, Leicester, on June 9, after a long period of ill health, Mr. George Edward Marfitt, chemist and druggist. Mr. Marfitt, who passed the Qualifying examination in 1895, was a pioneer in the window-display world, particularly among chemists. He lectured throughout the country on display, and was appointed a judge in many competitions, besides winning numerous prizes. He was a contributor to "Display." A keen sportsman, Mr. Marfitt was captain of the Leicester Chemists' Cricket Club, formed

twenty-four years ago. He also acted as convener to the sports committee at the British Pharmaceutical Conference meeting in Leicester in 1926. He was a member of the Galen Lodge, London, and the Halford Lodge, Leicester; and for a time he served as secretary of the Practical Psychology Club of Leicester. During the European war he was a second lieutenant in the Vo'unteer Infantry Battalion, founding and commanding the sanitary section of that corps. Mr. Marfitt was chairman of the Leicester and Leicestershire Branch of the Retail Pharmacists' Union in 1924, and president of the Retail Pharmacists' Union in 1924, and president of the Leicester Chamber of Trade following its inception. For eight years he was secretary of the old Leicester Chemists' Association; and among his fellow chemists he was highly respected. The following, among others, attended the funeral service held at the Cathedral:—Messrs. Young and Burrows, representing the local branch of the Pharmaceutical Society; Messrs. Martin and Rimmington, on behalf of the local R.P.U. Martin and Rimmington, on behalf of the local R.P.U. branch; Messrs. F. H. Clark, A. D. Hearnshaw, E. B. Ward, H. W. Clear and C. J. Avery; Mr. Jackson, representing Clark, Nettleship & Bailey, Ltd.; Messrs. Barnacle and Bonkins (Leicestershire Displaymen's Association); Brother T. C. Peberdy, S.D., John o'Gaunt Lodge; the Worshipful Master (Mr. C. C. Hoggett), Halford Lodge; Brother A. H. Chamberlain, Past Master and Secretary of the Lodge of the Golden Fleece.

MITCHELL.—At his residence, Holmwood, Church Road, Addlestone, on June 3, Mr. Alexander Hollington Mitchell, a director of Condy & Mitchell, Ltd., manufacturing chemists, 65 Goswell Road, London, E.C.1, aged forty-six.

OGSTON.—At Atherstone, Fairfield Road, Inverness, on June 5, Mr. William Ogston, retired chemist and druggist, aged seventy-three. Mr. Ogston, who was a native of New Deer, qualified in 1880. After experience as manager to Davidson & Kay, chemists, Aberdeen, he commenced business in Inverness in 1882, retiring nine years ago. He is survived by a widow and a son.

PAE.—At Whitmore Road, Beckenham, recently, Mr. Archibald Thomas Pae, chemist and druggist, manager of the local branch of Boots, Ltd. Mr. Pae qualified in 1896.

POTTER.—At 43 Christchurch Road, Streatham Hill, London, S.W., on June 12, after a long illness, Mr. Samuel Potter, senior partner of Samuel Potter & Son, drug merchants, 16 Mark Lane and 36-37 Mincing Lane, London, E.C.3, aged seventy-four. Mr. Potter was a brother of Alderman Henry Potter (Potter & Clarke, Ltd., manufacturing chemists, London, E.1). The oldestablished business will be carried on under the same style by Mr. C. Howard Potter, Mr. Potter's son and

RILES.—At 28a Priory Road, Hampton, Middlesex, on June 9, Mr. Henry Albert Riles. Mr. Riles had been connected with the drug trade since the year 1875, when he began his career at the age of sixteen as a junior account sales clerk in the Mark Lane Commercial Sales account sales clerk in the Mark Lane Commercial Sales Rooms. His next post was with E. Gallais & Co., Margaret Street, W.1, and during the four years he spent with them he was in charge of a stand at the first London Medical Exhibition, held in the Albert Hall. In 1882 Mr. Riles joined the staff of Francis Newbery & Sons, Ltd., 27-28 Charterhouse Square, E.C.1; he remained with Messrs. Newbery till last November, when he retired on a pension. During this long period of service Mr. Riles became well known and much esteemed in the drug trade and also among the medical profession. in the drug trade and also among the medical profession.

Information Department INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.4. Compericum. B/1810

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Observations and Reflections By Xrayser III.

No Change

in the chief officers of the Pharmaceutical Society would appear to indicate that the work of those concerned during the past twelve months has been approved by the great majority of their colleagues. Last year, if I remember aright, Mr. Skinner was elected as president by nineteen votes; this year he has received eighteen, and the shortage of one vote is not a matter to be taken seriously. Most important, to my mind, is the clear indication given that the Council of the Society does not intend to be bound by any rule, actual or imaginary, limiting occupancy of the presidential chair to twelve months. Nowadays, the amount of arduous work which falls to the lot of the president seems to justify keeping him in office longer if he proves himself really competent for the job, but his competency ought to be decided by his ability to control the business of the Society rather than by his success as a peripatetic speaker. I can imagine that the time may arrive when men who ought to occupy the position of president may be prevented from so doing by dread of the possible effects of the extraordinary amount of travelling and speechmaking that is expected from the Society's chief officer. One way out would be to have an official orator, silver-tongued like the late Mr. S. R. Atkins, Salisbury, and as adequately informed concerning all the Society's affairs as any single officer ever can be. He would also need to have a good digestion, and he might then be regarded as properly equipped to take the place of the president on innumerable occasions.

Pharmaceutical Qualification

would appear to be gaining in its estimated value among the great unqualified, when it is thought worth while to use certificates which are found to be forgeries, but I should imagine the case you report (C. & D., June 9, p. 714) is altogether an exceptional one. I note that the certificate in question was described as a "most clever" copy of a genuine certificate, and that it appears to have been a document which might easily have misled casual observers. This has set me wondering how many of us take the trouble, when engaging an assistant claiming to be legally qualified, to scrutinise closely the certificate he produces and make inquiry about it at the Pharmaceutical Society's headquarters. Not a great number, I imagine.

Public Presentation

• of the diplomas gained by candidates who qualify as pharmaceutical chemists is a right and proper thing. You report Mr. Peck as claiming that those who henceforth receive such diplomas will be on an equal footing as regards qualification with university graduates, and it may reasonably be admitted that this contention is correct. Just as the diplomas of the Royal Colleges of Physicians and Surgeons are assumed to be practically equivalent to university doctorates of medicine, so we may fairly regard our new pharmaceutical chemists as being on a par with bachelors of pharmacy. In my opinion, they ought to be regarded as something better, but an admission of virtual equality will satisfy me, and doubtless many others. But a formal occasion for the presentation of the diplomas is desirable to impress the importance of what successful candidates have done, and for that reason I am very pleased to find that the period when the new academic year opens has been selected for a ceremony that can be made quite impressive.

Drug Fund Charges

must obviously be kept as low as possible if the present insufficient supply of money is to be made to pay for all medicines ordered for insured persons, and I am glad to observe that you keep hammering away at this point (C. & D., June 9, p. 722). As you wisely suggest, it ought to be the function of a central committee to establish uniformity in what may be allowed or must be disallowed. I should like to add that every decision arrived at needs to be published freely, so that

everyone concerned may know exactly what is the existing position. A friend in the London area informs me that there have been several recent additions to the already long list of disallowed articles in that area, but that he had never yet been furnished with the official list in its entirety. Not only so, but the complete list has probably never been submitted to the London Insurance Committee, presumably because of probable outcry by the representatives of insured persons. As a system, this is bad in the extreme, and it ought to be the subject of protest.

The Incident

mentioned by your Paris correspondent (C. & D., June 9, p. 712), which has reference to a case of poisoning, in Cochinchina, by cooked toads is interesting because, as he says, toad poison is usually regarded to-day as being something of a myth. I am not aware whether any systematic investigation has been undertaken to ascertain if there is any foundation for the belief that any species of toad secretes a poison, but there are indications that harmful products are obtained from them. It was stated in the Dublin Medical Press of 1861 that the slaves of Brazil obtained from a species of toad a glutinous skin exudate which, when dried, they used as a poison; and it is a matter of common knowledge that our toad yields a secretion, from the skin, which is acrid and irritating. From very early times this creature has had a sinster reputation, which may have been due in part to its forbidding appearance, but which may also have had justification in some such experiences as that just recorded. Nicander, who had so much to say concerning poisonous creatures, was clearly convinced of the noxious character of the toad; and at a later date, at the beginning of the Christian era, Juvenal as well as Pliny the Elder were in no doubt as to its effects. The former of these, in his first and sixth satires, specifically refers to the employment of toad-poison and to that of its then acknowledged prophylactic, mithridatum.

There is

no more curious chapter to be written in "The Curiosities of Medicine" than that dealing with toads and other grotesques of the animal kingdom. The allusions to them in books of medicine, magic, mythology and in the general literatures of all nations are numerous. It would be interesting to know, with some measure of certitude, what were the parts of the toad which were employed for poisoning purposes. Juvenal says that the lungs were used. Other authors mention the discharge which the toad emits from a special reservoir when it is irritated and alarmed. Topsell, in his "History of Serpents," graphically describes the toad's performance in such cases. "Toads sometimes," he says, "in anger lift up themselves, for great is their wrath, obstinacy, and desire to be revenged upon their adversaries—especially the red Toad for many times she sendeth forth poison out of her buttocks or backer parts, wherewith she infecteth the air for revenge of them that do annoy her. It is small wonder that the ignorant and superstitious who looked upon the enraged creature ejecting its spiteful fluid should endow it with a supposed virulence which greatly exceeded the fact.

Are Toads

poisonous when eaten? The cited case would seem to prove that they are. Pliny, in his twenty-fifth book, states that he had seen fatal effects result from the eating of roasted toads by folk who professed to be Psylli, an ancient North African tribe who were said to be immune from the poison of serpents. This passage, quaintly decorated in our tongue by Philemon Holland, is worth quoting in full because of the light it throws on the old Latin name:—"Moreover, Frogs (such especially as keepe in bushes and hedges, and [for this reason] be called in Latine Rubetæ, i.e., Toads) are not without their venom: I myself have seen these vaunting Montebanks calling themselves Psylli, as comming from the race of those people Psylli who feared no kind of poison; I have seen them (I say) in a braverie to eat those toads baked red hot between two platters; but what became of them? They caught their bane by it and died more sodainly than if they had ben stung by the Aspis."



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Editorial Articles

What is a Food and What is a Drug?

QUESTIONS have arisen, and are likely to arise again, as to the distinction between "foods" and "drugs' '; and in view of recent regulations governing the use of preservatives in food it may not be inappropriate to see how matters stand in so far as statutory definitions and judicial pronouncements go. The history of the word "food" in the legal sense began with the Sale of Food and Drugs Act, 1875, Section 2, where it was laid down that the term "food" should include "every article used for food or drink by man, other than drugs or water." This definition was enlarged by Section 26 of the Act of 1899 by the addition of the words "and any article which ordinarily enters into or is used in the composition or preparation of human food: and shall also include flavouring matters and condiments." That addition was a direct result of the decision in James v. Jones (1894), in which it was decided that baking powder composed of sodii bicarb. 20 per cent., alum 40 per cent. and ground rice 40 per cent. was not an article of food. In that case, it is of interest to note that counsel for the appellant (who had been convicted by the magistrates) was Sir Richard Webster, Q.C., who, as Lord Chief Justice Alverstone, was responsible in later years for so many important decisions under this group of statutes; and the future Lord Chief Justice based his arguments on the fact that "baking powder was not an article of feed, because nobody would think of eating baking powder by itself." To which the reply of his opponent, then Mr. Finlay, Q.C., but now Viscount Finlay, ex-Lord Chancellor of England, was that "neither flour nor pepper nor vinegar were ever eaten by themselves, but no one would venture to dispute that they were articles of food." Mr. Justice Hawkins, in the course of his judgment, made some remarks which may well be borne in mind to-day, for they are still cogent though uttered thirty-three years ago. He said :-

"The mere sale of an article not of itself an article of food... is no offence... and it makes no difference in a legal point of view that, when sold, it is mixed with other ingredients... if the injurious and the harmless ingredients arc so inseparately mixed and in such quantities as that the mixture as a whole forms an injurious com-pound which nobody would dream of using as food. For instance, take this baking powder: of course it could be truly said that pure ground rice is an article of food for man; but it would cease to be so if it were mixed with an equal quantity of alum and 20 per cent. of bicarbonate an equal quantity of alum and 20 per cent. of bicarbonate of soda, and sold in little penny packets of an ounce each. Who would venture to describe such a mixture as food for man? With equal truth, might not powder composed of poison, mixed with flour, be called food for man because pure flour is used? Possibly it may be said that the injurious ingredient when mixed with the other materials of which an article of food is composed becomes a part and parcel of such article; but that is no argument against the vendor of such injurious ingredients unless such intendigation can be treated as an article of food at the time ingredient can be treated as an article of food at the time of the sale. That is the moment when the test of its character is to be applied, and if it is not then an article of food no offence is committed by the vendor of it, though the purchaser or any other person who afterwards mixes it with an article of food intended for sale would be guilty of an offence. . . . We do not in anything we have said intend to convey it as our opinion that nothing

can be deemed to be an article of food unless it be made up into an eatable or drinkable form and fit for immediate use, for we have no doubt that the substantial and requisite materials for making, and which are to form part of the unadulterated article when made—e.g., flour, butter, salt, mustard, pepper, etc.—are articles of food; for though nobody would ordinarily dream of eating them alone, yet they are articles intended to form substantial components of articles of food, or to be eaten as adjuncts thereto."

This decision of the Divisional Court had, in fact, been anticipated fourteen years previously by a decision on similar lines given by the Recorder of Cambridge in a case which is reported on page 61 of volume 44 of the "Justice of the Peace." In 1896 a Select Committee on Food Products Adulteration presented a report in which these decisions were commented upon as narrowing the intended scope of the Act; and as a result of the recommendations of this Committee the extended definition already quoted was embodied in the Act of 1899. That enlarged definition leaves matters just as they were, and just as they always have been so far as regards the line of demarcation between "food" and "drug"; but the time has come when that problem will have to be faced and when the distinction will have to be clearly and accurately defined, or-if that is beyond the wit of man or the genius of the judiciary—when at least the tribunals of the land shall have proper guidance upon the practice to be followed. The new Preservative Regulations are applicable to "foods." They are not applicable to drugs and medicines. Many examples could be found of articles in regular demand that could conceivably be required for either purpose. Some of these articles are, if not actually perishable, at least likely to deteriorate unless they contain some preservative that will obviate decomposition and enable them to remain in stock for a reasonable time. Suppose an article of this nature to be sold over the counter to a person who might want it for use in the preparation of food, whereas it might equally well be assumed by the chemist who sold it that it was intended to be taken as a medicine. And suppose it contained some preservative, unauthorised by the regulations as to preservatives in food. How is the legal position of the seller to be determined? It is an interesting and instructive fact, to be noted amid the general dearth of judicial decisions upon this subject, that two cases are on record relating to an article known as "chewing gum"-said to be very popular among the youth of America, but, happily, not "taken on" to any extent by British youth. Both cases reached the Divisional Court. One was in 1895 (Shortt v. Smith, reported in Vol. 11, "Times" Law Reports), where the defendant was prosecuted for selling chewing gum alleged to be "adulterated" with paraffin wax. According to the evidence given it was explained that the chewing gum was not intended to be swallowed, but that if it were swallowed accidentally it would be injurious to health. The magistrates held, upon the authority of the decision in the baking-powder case, that chewing gum was not a food within the meaning of the section, and the Divisional Court decided that they were right in so holding. Presumably this decision was before the Select Committee on Food Products Adulteration, and may well have influenced them to some extent in getting "flavouring matters and condiments" included in the Act of 1899, since it would seem to be arguable that chewing gum, though apparently neither a food nor a drug, was either a flavouring substance or a condiment. Be that as it may, there was a prosecution for the same thing in 1900 (Bennett v. Tyler), in which the facts were similar, and the magistrates convicted, but on appeal to the Divisional Court the judges held that they were wrong and quashed the conviction! It will be noticed that the framers of the Act of 1899 were not concerned, apparently, to define the word "food." What they were concerned to do was to enlarge the scope of the expression "food," so that all they have, in fact, done is to enlarge the area of confusion instead of restricting and defining it.

For example, they persuaded the Legislature to include But why? The Divisional Court had already laid it down (see the judgment of Mr. Justice Hawkins above) that articles like salt, mustard, pepper, etc., were articles of food because they are articles intended to form substantial components of articles of food or to be eaten as adjuncts thereto. Surely that was enough to cover flavouring matters and condiments. And so we come back inevitably to the old question what is a food, and in what respect is it to be distinguished from a drug or medicament? Here is a practical example of the difficulty that may, and probably will, arise before the new Preservative Regulations have been very long in force. Extract of malt-is that a food or a medicine? It is used very extensively as a medicine. It is used alone or in various compounded forms for dietetic purposes pure and simple. Incidentally, it is now freely used for brewing. May it contain any preservative, and, if so, must it conform in that regard to the Preservative Regulations? Candidly, we are not prepared to say, because it might be supplied for either purpose; and while it would scarcely be correct to classify it as an article which "ordinarily enters into the composition of human food,"-it would be equally inaccurate to deny that it is often "used in the preparation of human food." Suppose, then, a chemist should sell a pound jar of malt extract, not knowing for what purpose his customer requires it—and suppose that malt extract should contain a preservative not in accordance with the Regulations. Has he committed any offence? And how is the position altered in the case of malt extract mixed with cod-liver oil? Suppose malt extract to be a "food": what is it when mixed with cod-liver oil? These matters are by no means ridiculous, because the active and intelligent inspector has a penchant for raising points of this sort, and there is no telling what unexpected issues may arise out of these Preservative Regulations. That they are intended to be used for tightening up generally the administration of the Sale of Food and Drugs Acts is the one certainty about the present position; and we cannot help feeling that it would be of great value to the trade if something could be done to clear up the difficulty.

The Linseed Oil Position

SOMEWHAT reactionary conditions were noted during the past few weeks in the market for linseed oil, partly due to freer offers from the Continent for forward deliveries and to a more subdued demand for linseed from crushers, although the Continental takings have been maintained so far this year on a very large scale. Incidental to the revival of activity in seeds and oils referred to in our issue of April 21 (pp. 509-10), the circumstances under which considerable strength was imparted to linseed oil were then fully explained. The London spot price ex mill, since advanced further, helped by marked speculative support and reached about £32 per ton, thus indicating a rise of roughly £4 per ton compared with the close of last year. Various counteracting influences, however, subsequently made themselves felt, particularly the fact that a very full supply of seed is well assured to meet all possible world's needs for the current season. About three weeks ago it was estimated that roughly 1,200,000 tons would become available for shipment up to the close of the year, or practically as much as was accounted for in the corresponding period of the previous season. The shipments from all sources this year to European ports were on an enlarged scale, thus almost making up for the decrease of about 65,000 tons in the North American takings from the River Plate, according to the returns issued up to mid-May. In view of the much heavier U.K. arrivals during April of over 51,000 tons, home crushers were chiefly covering themselves from hand to mouth, but the market both for the seed and oil has displayed some resistance at the lower levels. The spot value of oil dropped at one time last week to £30 10s.,

but the market hardened again, although the immediate outlook is rather obscure, especially in view of a certain amount of manipulation, particularly on Dutch account. Similar to what was experienced across the Atlantic, in recent months, there has been an exceptionally active outlet for linseed cake on the Continent, which induced crushers to place contracts for seed with more freedom, and the very full prices secured for cake has enabled the mills to fully recoup themselves lately for the disappointing trade demand and the concessions made for the oil product. Considerable quantities of Dutch oil have again been more or less forced on the British market, which operations have been facilitated by forward speculative support, and thus resulted in contracts covering September-December and also for the first four months of next year, commanding a notable premium over the value of spot and near oil. This Dutch competition is a serious handicap to British crushers, as emphasised by the fact that this country has again been importing oil on balance so far this year, as indicated by the figures given below:-

1927 1928 Tons Tons
U.K. imports, January-April ... 4,881 9,515
U.K. exports, January-April ... 6,550 8,259

It will be seen that, whereas the returns for the first four months of last year show net exports of home-made oil of 1,669 tons, the corresponding figures for this year denote precisely the reverse, or net imports of 1,256 tons. Our total imports of linseed for the same period amounted to 137,025 tons, compared with 124,813 tons for January-April 1927, thus showing a good increase; this is accounted for by the excess derived from the Argentine, although only a trivial quantity came in from Russia, while 16.951 tons were contributed by British India, or a little more than in 1928, in addition to which 7,132 tons were credited to other countries. While there is not the least reason for uneasiness as regards fresh supplies for the current year, the fact has to be noted that the statistical position of seed has been materially affected by the handicap to shipments from the River Plate in the past month, due to the serious dock labour troubles in upriver ports there, chiefly Rosario. The outcome of this has been a rapid shrinkage in the quantities affoat, which, after reaching as high as about 295,000 tons two months ago, have fallen lately to approximately 110,000 tons, including U.K. and Continental ports. In the circumstances, it is anticipated that a reawakening of buying interest for Argentine seed is near at hand, although large resources are available there. The belief has been expressed by certain trade authorities that the absorbing capacity of the world's markets for the current year should be about equal to last year, and may possibly be exceeded, as prospects of yield in the United States are not very favourable for the coming crop. At any rate, market developments in some measure depend on American trade conditions, which point to an excellent outlet for linseed oil, assuming that operations in house building are not hampered by adverse weather conditions. At the same time, there has been a temporary accumulation of oil in the United States, which, according to the returns compiled by the U.S. Bureau of Agricultural Economics, amounted to about 106,000 tons, or approximately 13,400 tons more than a year previous. Total deliveries into American consumption for the first quarter of this year represented about 80,300 tons, so that on this basis the stocks available at that date were equal to roughly four months' domestic consumption. The sowings in the Argentine for the next crop have been distinctly favoured by good weather, but some damage has been caused to the Indian crop by rust in the Central Provinces, so that the recent Indian estimates of yield, amounting to about half a million tons, may be reduced. A close

survey of the whole position would suggest that there is not much room for any important renewed advance in prices, unless something untoward happens to future crops.

Japanese Camphor Industry

SINCE we last dealt with the conditions ruling in the Japanese camphor industry, competition between the natural and synthetic has increased in intensity, to the detriment of the former. This has caused much searching of heart in Japan, and the officials of the Camphor Monopoly Bureau and the Department of Finance have had several conferences on the subject, and one recently held in Tokyo was attended by 200 experts. A summarised report of the proceedings is given in the "Weekly Druggist" of Japan, and although nobody appeared to be pessimistic about the future of the industry, we do not gather that any practical steps were taken to reduce the cost of cultivating and producing natural camphor, and thus make the manufacture of synthetic less remunerative. That the Japanese industry thas declined may be judged from the fact that in 1917 the output of natural camphor in Japan reached twelve million kin, but after that year the amount was reduced to something like eight million kin annually. The total amount of camphor produced by the world in one year is estimated at about eleven million kin, of which about eight million kin is Japanese and the remaining three million kin synthetic camphor. But since then the annual production of synthetic has risen to fully six million kin. Particularly during the last three years competition has been fierce, and this has led to a reduction in the price of refined "B" camphor to 71 yen per 100 kin (1 kin = $1\frac{1}{3}$ lb.), compared with 170 yen in 1921. How the synthetic camphor industry has developed 1921. How the synthetic camphor industry has developed is shown by the fact that Iast year the United States (the largest consumer) imported 2.800,000 lb., against 294,000 lb. in 1923; of crude camphor, the imports were two million lb. compared with 3.4 million lb. in 1923, while of natural refined the imports last year declined to 1,289,000 lb., compared with 2,176,000 lb. in 1923. A writer in a Japanese paper calls attention to the fact that the German output of synthetic camphor is estimated at about seven million lb. annually, of which about three million lb. is exported, and about four million lb. is used for home consumption. Japane four million lb. is used for home consumption. Japan in pre-war days exported to Germany two million lb. annually, but last year German purchases from Japan were only about 400,000 lb. Following the introduction of synthetic camphor, no competition was evident from 1910 to 1915, although it had been manufactured long before then. It was the increase in the price of natural during the war, in combination with the perfection of campbor synthesis, which gave a fillip to synthetic camphor, and the makers have steadily improved their position since. It is now up to Japan to show that the industry can be put on a better footing by less primitive methods of production and thus reduce costs. At the same time, the greater use of the by-product camphor oil must be studied.

Medical Illegibility

The almost proverbial illegibility of prescriptions prompts the editor of a Hamburg medical journal to the following outburst:—"Why do the majority of doctors write so atrociously that their calligraphy should be held up as an example to avoid, with the result that pharmacists are regarded as possessing the greatest knowledge of deciphering manuscripts, since they are able to fathom the writer's intentions when confronted by a specimen of medical calligraphy. Doctors write almost exclusively for pharmacists, and it is a sign of disrespect on our part that we expect members of a profession which is closely allied to our own to interpret the meaning of hieroglyphics figuring on a prescription. There is no justification for illegible writing by doctors, and, to teach those who persist in this form of misbehaviour a salutary lesson, pharmacists should refuse to accept prescriptions which do not comply with the most elementary requirements in respect of clarity and legibility." In this connection it is interesting to note that one of the articles of the Prussian Pharmacy Law forbids pharmacists to make up illegible prescriptions without first demanding an explanation from the prescriber.

Patent Medicines in the House of Lords

In moving the second reading of the Food and Drugs (Adulteration) Bill (C. & D., June 9, p. 730) in the House of Lords on June 11 Viscount Gage said that it consolidated various enactments relating to the sale of food and drugs extending over a period of about 50

years.

Lord Buckmaster, in the debate, called attention to the fact that one of the matters dealt with in this Bill is a question that was raised nine years ago, when Lord Sandhurst promised that there should be a special and careful inquiry made by the Local Government Board for the purpose of seeing if further steps Board for the purpose of seeing if further steps could not be taken to control the sale of proprietary medicines. This Bill as it stands provides that—"No person shall sell to the prejudice of the purchaser any article of food or any drug which is not of the nature, or not of the substance, or not of the quality, of the article demanded by the purchaser." But this provision expressly exempts a food or drug that is "a proprietary medicine, or is the subject of a patent in force." Lord Buckmaster then referred to the Report of the Lord Buckmaster then referred to the Report of the Select Committee on Patent Medicines issued in 1914, which he declared to be one of the most formidable condemnations of the whole traffic in these articles that it is possible to imagine. "They found that many of the goods were distinctly fraudulent and that many of the medicines were being sold under false names for the special purpose of producing abortion. They found that it was almost impossible to get the matter properly and publicly discussed in the Courts, because the amount of money spent by these people in advertisements was so great that you could not possibly get any investigation or disclosure reported in the Press. They referred to a case where one of the commonest of all these ferred to a case where one of the commonest of all these remedies was declared to be grossly fraudulent, and the matter went by without being noticed at all. Lord Bledisloe and I were very much concerned about this, and on a former opportunity we called the attention of the Government to the fact that in the public interest these proprietary medicines, above all other things, needed control. This is one of the few countries where they are not controlled. In France no person can sell a proprietary medicine without having every one of the ingredients plainly stated upon the face of the bottle or box. [The noble and learned Lord is misinformed.—
Editor.] Here there is nothing of the kind. What EDITOR.] Here there is nothing of the kind. What happens, of course, is that these medicines are sold to poor, ignorant persons by statements that are often deliberately false, and frequently the drug sold is itself positively deleterious and dangerous and ought not to be taken. There is no protection whatever. When we be taken. There is no protection whatever. When we turn to this Bill, we find that we are positively to exempt these medicines from penalties applicable to anything else, and I think it is time to call the Government's attention to the fact that nine years ago it was promised that this matter should be looked into, and that nothing has been done."

The Marquis of Salisbury, in the course of his reply, stated that the matter was attempted to be dealt with during these long years but that, for some reason or other, the attempt broke down in the course of the passage through Parliament of a measure which was called the Proprietary Medicines Bill. However, it would be entirely contrary to the practice of the House to put an Amendment into a Consolidation Bill. As for the specific matter to which Lord Buckmaster had taken this opportunity of drawing attention, he was quite certain that his noble friend who represents the Ministry of Health in this House will report what has passed to his chief. He would make no promise, but if it is proved that the attitude taken by the noble and learned Lord is justified and that there is a great mischief, of course the Government will consider what can be done

to remedy it.

GENERAL MEDICAL COUNCIL.—The name of Harold Rearden. M.R.C.S., L.R.C.P., has been removed from the Medical Register at his own request, he having ceased to practise.

Westminster Wisdom

Notes on Parliamentary Matters.

Storage of Drugs and Medical Supplies

Sir Wilfrid Sugden asked the Secretary of State for War, on June 12, if he can state at what time in their military career quartermasters of the Royal Army Medical Corps receive instruction in the storage of drugs and medical supplies in such a manner as to prevent waste and deterioration; whether they are at any time subjected to an examination on this subject; and, if so, what steps are taken to ensure that the examiners themselves possess

an intimate knowledge of the storage of drugs and medicines?

The Secretary of State for War: Drugs and medical supplies are only stored in military hospitals in quantities sufficient for approximately the current six months' requirements. Instruction in their storage is given as part of the course of dispensing which all soldiers of the Royal Army Medical Corps have to pass before attaining the rank of sergeant. The examination at the end of the course is conducted by a Board of Medical Officers.

ARMY DISPENSERS

Sir Wilfrid Sugden asked the Secretary of State for War, on June 7, whether a qualified pharmacist is employed at the Army School of Dispensing to give instruction in pharmaceutical subjects, and what would be the additional cost of employing a qualified pharmacist in subordinate charge of the dispensing department at Netley hospital in place of the senior non-commissioned officer now employed in that capacity?

The Secretary of State for War (Sir Laming Worth-

The Secretary of State for War (Sir Laming Worthington-Evans): A staff sergeant dispenser is employed at the Army School of Dispensing; the cost would depend on the terms and conditions of appointment; the extra

cost might be about £100 a year.

Two further questions were put to the Secretary of State for War by Sir Wilfrid Sugden on June 12, viz.:—Whether any steps have been taken to secure the services of pharmacists in Royal Army Medical Corps Territorial units; and are pharmacists invited or desired to serve in the Royal Army Medical Corps?

The Secretary of State for War: Provision for the

The Sccretary of State for War: Provision for the enlistment of dispensers is made in the establishments of field ambulances and general hospitals of the Territorial Army; pharmacists would be eligible if they desired to

enlist.

New Books

Scientific Reports.—The following is a list of reports recently issued by the Wellcome Chemical Research Laboratories: No. 206. "The Determination of Ascaridole in Chenopodium Oil," by H. Paget. No. 207. "Mercuration of some Akylphenols and Alkylphenolaldehydes," by T. A. Henry and T. M. Sharp. No. 208. "The Action of Antimony Trichloride upon Diazotised Diamines," by W. H. Gray.—No. 209. "Separation of d-neo-Bornylamine from d-Bornylamine," by J. A. Goodson. No. 210. "The Alkaloids of Ipecacuanha, Part IV," by W. H. Brindley and F. L. Pyman. No. 211. "The Alkaloids of Picralima Klaineana," by T. A. Henry and T. M. Sharp. No. 212. "o-d-Bornylsemicarbazide and o-d-neoBornylsemicarbazide," by J. A. Goodson.

Allen's Commercial Organic Analysis. Vol. V. By

Allen's Commercial Organic Analysis. Vol. V. By S. S. Sartler, E. C. Lathorp, C. A. Mitchell and contributors. Fifth edition. 9½ in. by 6 in. Pp. 702. 30s. J. & A. Churchill, 40 Gioucester Place, London, W.1. [The volume is of special interest to the pharmaceutical profession in that it concerns tannins and colouring matters of natural origin as well as inks of various kinds and colouring substances in foods. The volume also has sections on benzene and its homologues; aniline and its alites; naphthylamines, pyridine, quinoline, and acridine bases. The fact that the section on tannins and inks is contributed by such masters of their respective subjects as M. Nierenstein and C. Ainsworth Mitchell makes the volume a noteworthy addition to the series. The progress in science since the previous edition appeared has necessitated the rewriting of many of the sections and extensive revision of the remainder.]

"Lac"

By John D. Marshall

In these days, when most of our products are the result of highly mechanised or synthetic methods, one is prone to forget that some of God's lowliest creatures are responsible, at any rate in part, for our pleasure, edification and advantage. In particular, that minute insect called Tachardia lacca is of paramount importance in many manufactures, e.g., lacquer work and gramophone records, which contain a large percentage of lac, and for which there is no known substitute. In the manufacture of rubber for cables, etc., it is used in as much as 15 per cent.; rubber being naturally slightly porous, the addition of shellac renders it air proof. There are also many other and diverse commodities into which shellac enters.

The cultivation of Tachardia lacca is quite a romance, being carried on by ryots in various parts of India. My attention was drawn to the industry on a recent winter spent in India, when, en route for Calcutta, I stopped at a station called "Drug." Being inquisitive, I wanted to know what the local drug manufacture or collection might be, and found it was "Shellac "; further inquiry put me on the track of its cultivation.

The word "lac" is derived from the Sanscrit, Laksha (Hindu Lakh), or a hundred thousand, in allusion to the enormous number of minute insects, which at swarming time emerge from the parent and settle on the host tree, suck its juices, and ultimately exude the commodity we call "lac." When the newly-hatched larvæ swarm usually in the early morning—one can see huge numbers of tiny crimson or mauve specks moving along the branch, until each finds a spot suitable for its habitation, with tender bark through which they can insert a slender proboscis finer than a hair; this done, they are fixed for life. The females soon lose their legs and become sessile; as they grow they continually exude from their glands a waxy resinous substance, and shed their coats as well as a sugary excrement known as honey-dew. The insect has now become a pear-shaped sac, with an indefinite head and a delicate proboscis; at the other end is a small spine and three conspicuous pimples. At the apex of two of the pimples are breathing holes, leading to internal breathing tubes, the third being the anus and genital organ. The exuded excrement constantly covering the body it is a wonderful provision of nature to provide that the opening should remain clear and not become blocked; this is done by the protrusion of delicate snow-white filaments, which in some way keep the passages clear. There are two broods in the year; the life of the female is about six months, and they become sexually mature in about eight to twelve weeks, when they have a thick covering of lac, and are ready for the males, who have also been developing. The male in early life is somewhat smaller than the female, and have a different shape in their lac covering, of which they produce much less. When the females are ready for pairing they crawl from their lac shells, when it is seen they have legs, and often wings; they then proceed to find and fertilise the female, having a long copulatory organ which reaches the female organ through the anal opening in the lac. After this is completed the male cycle is finished, and they die. The females now secrete lac much more quickly, owing to the necessity of taking much more food to supply the huge family in process of development. About a month after being fertilised the female dies, the young shelter under the lac for about a week, and then wander forth to find a succulent twig. Several kinds of trees afford nourishment, the best being the "Kusum," the lac from this being specially light and clean in a large special this being specially light and clear in colour.

Tarchardia lacca is distributed widely in India, practically the only source of supply. The scattered character of the industry requires a very complicated organisation; the first agent is the ryot, who cultivates a few acres on which there are some suitable trees; the next link is the baipari, who wanders from village to village, selling salt and other things, and buying local products, lac being one; this man is frequently financed by a broker or commission agent called an aratiya, who sells to agents

of the large manufacturers.

The standard and best quality is T.N., the price of which affects all other qualities. The number of persons

through which the product passes and the uncertainty of crops allow for a very large speculative element, but as education and the very valuable work of the Indian Forest Department advance the disturbing factors will certainly diminish.

Insurance Test Dispensing

At the May meeting of the Durham County Insurance Committee the chairman of the Pharmaceutical Service Subcommittee said that "there was a great improvement in the chemists' service, that the analysts' reports on a considerable number of dispensed medicines showed a very satisfactory service, and he wished it to be in the minutes and reported at the annual meeting of the Insurance Com-The following are comments on test dispensing mittee.

from the reports :-

The dilute acids and ammonium carbonate were at first very faulty, but recent reports show considerable accuracy, especially since the Retail Pharmacists' Union had Messrs. self and Corfield to investigate and report on ammonium carbonate and a solution of the same. The report showed solutions of the salt to be very stable, and the Union recommended non-effloresced tump ammon. carb. be suspended on muslin in water, when solution is quickly effected without appreciable loss of ammonia if the mouth of jar is covered while solution is taking place. The chemist not having burette, pipettes and standard acid can test his solution of ammon, carb. by putting 120 minims of it into a flask or bottle, adding I drop of solution of methyl orange, and neutralising with acid. sulph. dil., B.P. It should require not less than 134 minims to change the colour to pink, corresponding to ammon. carb. containing 30.6 per cent. of ammonia. A Winchester of solution of ammon. carb., 1 in 8, prepared by the suspension method, when tested, showed that 120 minims required 140 minims of ac. sulph. dil., B.P., corresponding to a strength of ammon. carb. containing 31.38 per cent. of ammonia, or 102.5 per cent. of ammon. carb. This shows that ammonium carbonate in bright pieces is above the minimum strength required by the B.P., viz, 30.6 per cent. of ammonia. The margin, however, will not permit the use of effloresced ammonium carbonate. On no account should powdered salt be used; the use of such has accounted for deficiencies up to 80 per cent.

It is better in testing to use a 10 c.c. cylindrical measure graduated in 1/10 c.c. and measure 7.1 c.c. (sij.) of the 1 in 8 solution of ammon. carb. and add the acid. sulph. dil., B.P. 1914, from a burette. Not less than 8 c.c. of the acid should be required, which is equivalent to 15 gr. of ammon. carb. of the B.P. minimum standard. 7.1 c.c. of a 1 in 8 solution of ammon. carb. required 8.25 c.c. of of a 1 in 8 solution of ammon. carb. required 8.25 c.c. of acid. sulph. dil., B.P., equivalent to 15.4375 gr. of ammon. carb.; therefore 60 gr. of ammon. carb. is equal to 61.75 gr., or 1.75 gr. above the B.P. minimum standard. When the solution has been made from non-effloresced ammon. carb. and less than 8 c.c. of the acid changes the colour to pink, then the acid is stronger than the B.P. acid. Acid. sulph. dil., B.P., 1914, should contain 10 per cent. by weight of real H₂SO₄, w/w, i.e., 1,069 grams should measure 1 litre, or 1,069 ounces (by weight) should measure

1,000 fluid ounces.

Three prescriptions ordering 24 gr. of potassium permanganate in 8 oz. of water showed faulty dispensing. One case was investigated, as the official analyst's report showed 80 per cent. excess of the salt in the half analysed. The R.P.U. defence analysis of the other half showed such a deficiency that the two reports proved 24 gr. had been put in the bottle, but division had been effected before solution was completed. The other two cases have not been investigated, as the results would probably be the same. The last example from the official analyst's report showed excess of 64.2 per cent., or 38.9 gr. in 7.91 oz. Experiments show that 24 gr. of very small acicular crystals in 8 oz. of water require from three to five minutes' hard continuous shaking to dissolve completely. Alternative methods would be the use of mortar and pestle or but water to ensure complete solution. or hot water to ensure complete solution.

An escape of sulphuric acid from a tank at Middletonin Teesdale is stated to have been the cause of the death of thousands of fish in the River Tees.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

ENGLAND AND WALES

Local Reports

Carmarthenshire.—The annual meeting of the Carmarthenshire Association of Panel Chemists was held at Llanelly recently. Mr. J. R. Henderson was elected Chairman, Mr. D. Morris Vice-Chairman, and J. Gower (re-elected) Secretary and Treasurer. Important matters were discussed. A vote of thanks was passed to the retiring chairman, Mr. J. Walters, who had been chairman for over ten years and had done good service.

Devon.—A meeting of the Devon Pharmaceutical Committee was held at Exeter on May 23, Mr. W. W. Pine in the chair. The omission from the tariff of certain rarely used appliances which, however, remain on the Second Schedule to the Medical Benefit Regulations, and may therefore be prescribed, was regarded as liable to mislead the chemist.

Middlesex.—At a meeting of the Pharmaceutical Committee held on May 23, Mr. T. Marns in the chair, representatives were selected to attend the N.H.I. Conference to be held in London on July 18. It was decided to hold a mass meeting of chemists on the panel for the county of Middlesex, on June 27, to consider the whole position in regard to the present N.H.I. terms. The position in regard to articles which are allowed or disallowed in Middlesex was reported to be unchanged for the time being. A further selection of doctors for investigation of prescribing was approved. The supervisor's report included the following particulars of prescriptions priced:—

Total No. of Cost 1927 prescript. Cost per drugs per January 1, 2,880 197,150 6,852 8.3d. 3.9d. March 6,612 190,784 6,627 8.3d. 3.9d. cles disallowed during January 1, 2,880 190,784 6,627 8.3d. 3.9d. cles disallowed during January 1, 2,880 190,784 6,627 8.3d. 3.96d.

Articles disallowed during January, February and March 1928 numbered fifty-eight, including eighteen brushes, Benedict's and Fehling's solutions, test-tubes, goldbeater's skin, isinglass felt, eye shades, ear syringe, wrist straps, Thermogene wool and hypodermic syringes and needles when not ordered for insulin. During the first quarter of 1928 nine hypodermic syringes and seventy needles were supplied at a cost of £1 6s. 5d. and £3 9s. 6d. respectively. During January and February 1928 the Ministry of Pensions (London Region) prescriptions numbered 1,822 and 1,332 respectively. The total value was £97 and £66 11s. 2d. respectively. Various points in connection with the payment of chemists' N.H.I. accounts were explained, and it was definitely stated that no further payment would be made in respect of last year's accounts.

Smethwick.—At a meeting of the Insurance Committee on May 8 the Benefits Subcommittee reported inter alia amendments to existing regulations prohibiting chemists from offering inducements encouraging insured persons to present prescriptions to them. Statistical data relating to prescribing for the quarter ended December 31, 1927, were as follows:—

During the quarter ended December 31, 1927, eleven persons received eighty-two prescriptions for insulin, the cost of which was £41 4s. 4d., and eleven persons received prescriptions for vaccines, at a cost of £6 11s. 11d. The Finance and General Purposes Subcommittee reported that two chemists who resigned from the list in October have received overpayment as the advances made to them for August to October, on the basis then determined, exceed the amount finally determined as due to them. In the one case the clerk reported that difficulty was being experienced, as the

chemist in question had, it was understood, gone to New Zealand, and so far it has not been possible to ascertain his address. The amount involved is £1 1s. 3d. The cash statement for the period January 1 to April 21, 1928, contained the following amounts payable to chemists:—January, £499 3s. 3d.; February, £476 0s. 10d.; March, £487 0s. 11d.; Balance, 1927, £11 12s. 4d.

Southport.—At a meeting of the Insurance Committee, on May 14, the Pharmaceutical Service Subcommittee reported a complaint by an insured person that he had not been supplied with tablets in accordance with the prescription of the doctor who attended him. The chemist, called upon for a statement, stated that he had not the prescribed tablets in his shop at the time; he gave other tablets to be going on with, and promised to get the right ones. He, however, could not get them at the time, and subsequently he forgot all about it. It was decided to ask the Ministry of Health to make a deduction of £1 from the chemist's remuneration. The action of the Subcommittee was confirmed.

-At a meeting of the Insurance Committee, on May 30, the Hours of Service Subcommittee reported consideration of the question, raised by a practitioner, as to difficulty in obtaining medicines after the chemists' closing-hours on Wednesdays and Sundays. The report continued: "The Subcommittee has power to require a rota to be established, but is loth to put this provi-sion into operation, and therefore considers that the position may be met by information being obtained from the chemists concerned as to whether they are prepared to open on Wednesday and Sunday, and that an intimation of such hours of opening should be supplied to the practitioners on the panel in the area concerned and to the chemists." Report was made upon cases under the scheme for testing drugs and appliances. In five cases it was agreed that the Minister of Health be asked to withhold moneys payable by the Committee in respect of medical benefit, with a view to corresponding deductions being made from the remuneration due to the chemists. The Committee expressed the opinion that in one case there was "gross carelessness" in dispensing; that in another case that there was evidence of "extreme carelessness," and that the chemist be censured; and in a third case "that the preceding was evaluated, in a third case that the prescription was carelessly dispensed, and that the medicine was supplied in a dirty bottle," this chemist also being censured. In one case the chemist put in an analysis from his wholesalers, and the Committee, while of the opinion that no blame was attaching to the chemist for the deficiencies discovered on analysis, found that the prescription, as ordered, was not correct, and, in censuring the chemist and making a recom-mendation as to the withholding of money, observed that they left the chemist "to obtain what remedy he can from the wholesale house." In addition, two chemists were warned to take care in future in the dispensing of medicines. The Committee had also investigated a complaint by an insured person that a firm of chemists had refused to dispense a prescription. The chemist at the firm's branch shop refused to dispense a prescription of the London form. pense the prescription on the London form, and the patient withdrew the Surrey form. There was no question that the chemist would not have been paid for the prescription, but the Committee decided to inform the parties that the chemist had no justification in refusing to dispense the prescription.

Warwickshire.—A meeting of Warwickshire panel chemists was held at Leamington on June 7 to review and consider the position in regard to the existing arrangements under the N.H.J. regulations A discussion took place embracing the following subjects, among others:—Adequacy or otherwise of the drug fund, the present arrangements for testing dispensing, disallowances to chemists, prescriptions ordering foods and foodlike articles, extravagant prescribing, revision of the local formulary. Resolutions dealing with such subjects were passed

THE PEACOCK DRUG Co., recently formed in Edmonton, Alberta, Canada, has acquired the wholesale drug business of Revillon Wholesale, Ltd., of Edmonton.

Trade in North Africa

A SURVEY of Economic and Commercial Conditions in Morocco, Algeria, Tunisia, Tripolitania and Cyrenaica, 1926-27, is the subject of an interesting and valuable report of 160 pages issued by the Department of Overseas Trade (H.M. Stationery Office, 4s. 6d. net), from which we take the following particulars of drug trade interest:—

Morocco

Imports into the French zone of Morocco are increasing steadily and the demand for household soap has grown considerably. Great Britain has lost this market, as practically the whole supply is now bought from France in the form of cubes, weighing 300 to 500 grams and marked to contain 72 per cent. of fatty matter. The quantities imported from Great Britain fell from 34 tons in 1924 to 21 tons in 1925 and five tons in 1926. Local legislation enacted in 1924, combined with exchange conditions, excluded British soap from the market. Certain makers have now adapted themselves to the legislation, and there are signs of a renewed demand for English blue mottled, but the price is still a deterrent. The French zone (says the report) is a land of great promise for the future, and deserves the attention of British manufacturers and merchants. Caution is required in giving excessive credit and facing exchange conditions until these become more stable. The British commercial connection with this country dates back to the sixteenth century, and with a fair choice of agents good progress is possible. The following are a few interesting exports:

	1924		19	25	1926	
Article	Total value, 1,000 frs.	To Britain 1,000 irs.	Total value, 1,000 frs.	To Britain 1,600 frs.	Total value, 1,000 frs.	To Britain 1,000 frs.
Almonds Canary seed Linseed Beeswax Gum sandarae Gum acacia Coriander seed Cumin seed Fenugreek seed Olive oil.	30,591 18,281 11,923 1,209 1,729 293 2,244 1,074 857 13,681	15,833 5,185 1,147 138 538 272 422 318 205 2,150	35,846 7,147 14,563 1,247 4,779 439 2,184 3,007 2,343	21,285 2,113 1,956 183 1,664 426 545 555 1,270	50,342 5,489 18,217 2,254 4,657 339 5,395 3,136 4,257 12,223	32,458 2,229 1,899 820 1,016 291 464 60 1,491 440

The Tangier zone of Morocco is also in a flourishing condition, though the imports from and exports to Great Britain are not increasing in the same ratio as those for France, Spain or the United States. During the first six months of 1927 Spain had the largest share of the imports of chemicals and drugs with 145 m. tons, valued at 39,000 frs. France came next with 64 m. tons, valued at 137,000 frs., then Belgium with 25 m. tons, valued at 22,000 frs. Britain had only 2 m. tons, valued at 10,000 frs., and Italy goods valued at 5,000 frs. There were 687,955 kilos. of canary seed, valued at 37,000 frs., exported during the same period, and Britain took the entire produce.

The Spanish zone has been unsettled, due to the guerilla warfare in this region, but is now presenting a more peaceful outlook. Under the circumstances a true report of conditions is impossible, but the imports from the United Kingdom in 1924, 1925 and 1926 respectively amount to $10\frac{1}{4}$, $8\frac{1}{2}$ and 7 million pesetas.

TUNISIA

The following tables deal with the imports and exports between the United Kingdom and Tunisia during 1925 and 1926:—

Commodities	Quan	tities	Value in frs.	
Commodities	1925	1926	1925	1926
Imports:— Chemical products kilos Herbs, roots, etc. Medical goods . , ,,	92,954 2,290 265	27,543	184,285 8,810 1,016	84,786
Exports:— Olive oil . kilos Henna leaves . ,, Beeswax . ,, By parcel post:— Olive oil . ,,	83,447	72.057 1,095 1,645	584,129° —- 2,600	792,627 16,425 14,805

ALGERIA

The production of olives in 1926 was estimated at 50,000 tons, of which 47,000 tons were destined for the mills and the balance for preserving. The market price was from 125 to 170 frs. per 100 kilos., and the price of the oil varied from 750 to 1,000 frs. per 100 kilos., according to quality. The season was bad both for producers and manufacturers. In 1926 over 12,000 tons of olive oil were exported, mainly to France, against 11,400 tons in the preceding year. Another notable item in the exports is the huge quantity of geranium oil, 143 tons, valued at over four million francs. The following table shows imports for 1926 and first half of 1927:—

	1	926	1927 (Ja	anJune)			
Imports	Quantity	Value (1,000 frs.)	Quantity	Value (1,000 frs.)			
Chemical products: Acids — Hydrochloric m. tons Sulphnric , ,, Tartaric , ,, Copper sulphate ,, Fertilisers— Chemical , ,, Organie , ,, Potassium and sodium salts , m. tons Salt, rock and table m. tons Superphosphates ,, Other undescribed m. tons Medicines, patent ,, Medicinal roots and herbs , m. tons Perfumes and soap ;— Perfumes . ,,	11,763 2,210 11,763 2,210 15,579 11,236 26,707 12,494 605 225 1,045	183 362 2,495 3,511 15,500 7,172 1,348 6,443 903 5,475 25,717 10,824 956 26,777	150 114 11 1,874 5,971 2,496 776 7,047 4,363 3,233 4,813 212 176 307	113 40 114 1,894 12,042 1,725 387 2,322 355 663 12,171 5,832 709 7,697			
Soaps, unscented ,, Sulphur ,,	13,474 24,955	53,900 9,489	7,332 19,936	29,331 7,623			

Of these imports 538 m. tons, valued at 1,740,000 frs., came from Britain in 1926.

	19	926	1927 (JanJune)		
Exports	Quantity	Value (1,000 frs.)	Quantity	Value (1,000 frs.)	
Chemical products:— Calcium tartrate m.tons Salt, rock and table; Superphosphates ,, Tartar, crude ,, Wine lees ., Medicinal roots, herbs, etc	41 -12,651 19,303 2,364 5,267 745 143 8 12,377 950 19 52	82 696 4,826 6,496 2,107 2,926 24,411 1,232 89,119 196 59 781	10 9,777 6,147 1,092 2,157 339 54 3.5 1,692 1,068 13	32 552 1,353 4,370 1,294 1,575 9,203 3,318 16,929 391 27 268	

The exports to the United Kingdom during 1926 in the following were:—Chemicals, 1,243 m. tons, valued at 4,951,000 frs.; medicinal products, 21 m. tons, valued at 98,000 frs.; essential oils, 25 m. tons, valued at 4,314,000 frs.; and olive oil, 786 m. tons, valued at 7,864,000 frs.

Cyrenaica

Throughout the year 1927 traffic by land could only be conducted under convoy, and as a result of these military operations imports are indirectly affected and exports have greatly diminished. The resultant crisis has much deflected the capital of weaker firms, which have also been affected by the arbitrary measures to reduce the cost of living. Cyrenaica has an area of 230,000 sq. miles, and is evidently to be a close preserve for Italy, indoing by the new protective tariff recently issued.

Sponge fisheries in 1925 had a "record" year, and the total quantity of taxable sponges brought into Bengasi was estimated at over 13 million lire. There was a slump in prices in 1926, and although forty-three vessels were engaged in this industry, the taxable total was only six million lire. Last year there were twenty-three vessels, and the total (not yet available) is expected to reach about five million lire.

TRIPOLITANIA

Tripolitania, Italy's youngest colony, is at present experiencing those difficulties which are the inevitable aftermath of years of military turmoil. Large tracts of the land are now under Italian rule, and the whole territory will doubtless be organised in the near future. The soap industry is already established, three small factories having an annual output of about 3,000 quintals. The quality of the soap is excellent, but none has been exported yet, as the price cannot compete with the product of Tunisia, where the oil is cheaper. The price of Tripoli soap is from 320 to 360 lire a quintal. The production of olive oil will be one of the principal industries of the colony once the groves are completed. production of olive oil will be one of the principal industries of the colony once the groves are completed. Eighty thousand trees are being planted yearly, the produce meantime reaching 2,000 quintals of good oil. The quality and quantity should improve each year by more modern methods of production. Henna grows well in this region and produces three crops each year. It will also become a mainstay in due course. The local price is 100 kilos. for 360 lire. The following short table gives a comparison of exports during the years 1925 and 1926:—

Article				1	925	1926	
	Sponges Olive oil Henna	::	••	Quintals 320 1,115 3,695	Lire 3,966,175 662,420 1,361,690	Quintals 476 1,923 3,969	Lire 5,102,950 1,496,710 1,562,673

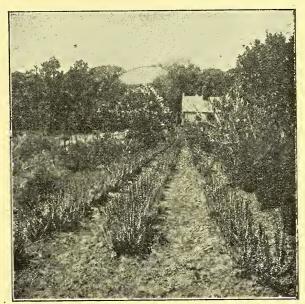
Experiments in South Africa

By R. C. Wren, F.L.S.

South Africa is easily reached, and one can be certain of blue skies and warm sunshine, while the magnificent scenery of the Cape has a compelling appeal to eye and mind. One can sit in the stoep of a bungalow and watch the cloud effect on Table Mountain and never tire, or motor up its pine-clad slopes and view the Atlantic ocean on one side, and the Indian ocean on the other. are several ways by which the mountain can be climbed, and one of them is through the botanical gardens of Kirstenbosch, about eight miles from Cape Town. Here is collected most of the flora of the province, and thousands of plants from distant places. Experiments in the growth of plants from distant places. Experiments in the growth of plants suitable for commercial purposes are always being made in the hope that new industries may be developed. Under the able superintendence of Professor Compton, and the curator, Mr. Matthews, all sorts of ideas are being suggested, but, apparently, they are seldom followed up by those who might make something out of them. One year I found colocynth being harvested; the product was excellent, and there was a local market for it. On inquiry this year I found that nothing market for it. On inquiry this year I found that nothing further was being done. Dalmatian insect flowers grow quite easily, and I saw quite a large patch in the grounds. This might also be made to pay if cultivated extensively. Some of the crop nicely dried provided an excellent sample of half-closed flowers. Chamomile, peppermint, pennyroyal, spearmint, and other English herbs have been planted. They live, it is true, but the heat and sunshine are too much for them, and they flower before there is any growth like the cake out here which before there is any growth, like the oaks out here, which fail to make wood, and run to leaf and acorn. Peppermint has been tried by one farmer and with some sort of mint has been tried by one farmer and with some sort of success, but it needs continual watering. Naturally, the plants indigenous to South Africa do best. Here will be found every known variety of buchu, a leaf held in highest repute by the Dutch, who make from it a buchu brandy. This is one of their household remedies, and is their stand-by in cases-of malaria, cold and stomach troubles. I have no doubt that we in England would use buchu much more if its properties were better understood; and as more is produced than is required by the South Africans themselves or the outside world, it would pay them to write it up and make the market. There is a want of enterprise in this respect. I send you a snapshot of Barosma betulina almost ready for harvesting. Bush tea, in many varieties, is seen growing here. This Bush tea, in many varieties, is seen growing here. This is used as tea and as an admixture with tea. It contains no tannin and makes quite a passable beverage. Here, again, is a field which might be exploited.

Some seven years ago articles appeared in various papers respecting Vinca rosea, a plant said to be grown in Natal, and reputed to have remarkable virtue in the treatment of diabetes. On my first visit to South Africa, I tried to get on the track of this, and except that I found a preparation was being made and sold in Durban I failed. I interviewed the president of the Pharmaceutical Society of the Cape Province, and also made inquiries at Kirstenbosch, but without avail. This time Mr. Matthews said, on seeing me, "Mr. Wren, we've got your Vinca rosea growing," and, sure enough, there it was. It is an upright plant, growing to the height of two or three feet, with bright green leaves and one flower of the approach cach stall to a writer leaves and one flower at the apex of each stalk; a pretty plant with a true periwinkle flower, only of a brilliant rose colour. This year I have found it in Southern Rhodesia and in Bechuanaland, so, in time, it may be possible to get some supplies. I have a very small consignment already on the way, and hope to have sufficient before long to make experiments with it. It is said to act where insulin fails; but, of course, that has yet to be proved.

It may interest readers to know of some of the medi-



Barosma betulina

cines given to the natives. They have a great idea of the white doctor; and the bigger the pill, the nastier the medicine, the quicker the result. I was at Serowe, in medicine, the quicker the result. I was at Serowe, in Bechuanaland, and was invited to attend the dispensary one morning. The following are a few of the cases and the remedies given:—(1) Native policeman, malaria. Given at once a coated pill, size like a small marble, containing: hydrarg. subchlor. gr. v., res. jalap. gr. v., ol. croton. mss., aloin. gr. 1, ordered home, and instructed to take 3 gr. of quinine, twice daily; (2) jail cook, also malaria, same treatment; (3) woman, venereal, finger-tips tender and inclined to fester, given lin. iodi. fort. to paint; (4) boy, tinia scabies, sulphur and soft paraffin are rubbed roughly together and about 4 oz. given to apply; (5) man, venereal, hole in leg, given lotio. nigra, are rubbed roughly together and about 4 oz. given to apply; (5) man, venereal, hole in leg, given lotio, nigra, and instructed how to use it; (6) woman, pregnant, eight months, stomach trouble, given Epsom salt, gentian, etc. Husband is told he must get a bottle, and he orders his wife to run home for it. Missionary hears him, and tells the man to go. Woman, smiling, squats on the ground, and the man slowly moves off, looking as if would have his own back later. would have his own back later.

SPANISH RESIN.—A semi-official statement issued in Madrid announces that the Government proposes to establish a consortium to regulate the exploitation and price of resin, and to set up a syndicate connected with its production.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, June 14

In the pharmaceutical chemicals group, the volume of done appears to have been more limited than usual, while price cutting continues very severe. Aspirin is firm at last week's higher prices, and salicylic acid is quiet. Amidopyrin is easier, and guaiacol carbonate has also weakened; hexamine is being freely cut and is on the easier side. Bromides meet with a limited business that the salicy is the salicy with the salicy ness. Among crude drugs, cod liver oil is dearer, with more inquiry for autumn shipment. Turmeric is firm and dearer for Madras finger. Senega is steady in spite of new crop offers. Ipecacuanha is on the easier side; menthol and camphor are neglected. New crop cumin and coriander seeds are firmer. Lime juice has further advanced. Quicksilver is lower. Among the industrial chemicals business continues restricted, and the bulk of reports indicate an unusually quiet tone. There are no significant price changes in this group. Acetone is well maintained, but demand quiet; cream of tartar shows little activity. Among the vegetable oils, quiet markets are reported, a few items being cheaper. These include all grades of palm, coconut and cotton oils; linseed is easier in all positions, and turpentine has fluctuated, closing higher. Other changes include an easier tone in fuel oils, white oils, petroleum jellies; paraffin wax and scale are firmer. Essential oil business is very quiet. Citronella is firmer, while coriander, sassafras and wormseed are slightly easier.

	1	1	
Higher	Firmer	Easier	Lower
Cod-liver oil Geraniol Limejuice Saffron	Adrenalin Carmine Citronella oils Cumin seed (Morocco, c.i.f.) Turmeric Wax, parafin and scale	Acid oils Cocoa butter Coconut oils Coriander seed (c.i.f.) Cotton oils Hexamine Pimento Sassafras oil Wormseed oil	Amidopyrin Antimony (Chinese) Fuel oils Gualacol carb, Linseed oil Mercury Palm oils Pepper Petroleum jellies Pitch White oils

Cablegram

Bergen, June 13.—The catch of cod since the opening of the season amounts to 62,800,000, against 64,400,000 at the corresponding period of last year, and the yield of steam-refined non-freezing oil is 49,664 hectolitres, against 70,464 hectolitres at the same period last year. Market is dearer at 168s, per barrel, c.i.f., for finest new Lofoten steam-refined non-freezing oil.

Crude Drugs, etc.

Aloes.—Curação in cases remains firm at from 70s. to 72s. 6d. per cwt. on the spot for capey quality. The landings in London during May were 52 and the deliveries 169, leaving a stock of 142 against 165 last year.

Antimony.—While there has been no change in English regulus which varies from about £58 up to £60 per ton

according to degree of purity, the demand for Chinese regulus continues very dull and holders on the spot shaded their terms again due to cheaper offers for shipment. Spot parcels are quoted £41 10s. to £42, and c.i.f. terms stand at £39 10s. to £39.

Benzoin.—The landings in London during May were 261 and the deliveries 179, leaving a stock of 677 against

CALUMBA.—The landings in May were nil, and the de-liveries 8 bags, leaving a stock of 899, against 1,337 last year.

Cardamoms.—At auction on June 7, 57 cases Indian CARDAMOMS.—At auction on June 7, 57 cases Indian offered, of which 35 sold at about steady rates, including bold palish specky, 5s. 9d. to 5s. 10d.; extra bold brown, 4s. 4d.; brown and specky, 3s. 3d. to 3s. 5d.; small to medium leanish brown, 3s. 2d. to 3s. 3d.; bold medium palish splits, 3s. 6d. The landings in London during May were 394, and the deliveries 316, leaving a stock of 1,733 against 1,928 last year.

CASCARA SAGRADA.—For prompt shipment from 51s. to

CASCARA SAGRADA.—For prompt shipment from 51s. to 52s. per cwt. c.i.f. is quoted for new crop in five-ton lots; on the spot three-year-old is quoted at 65s. and last year's peel 60s. The landings in London during May were nil and the deliveries two tons, leaving a stock of 268 tons, against 320 tons in April, .1927.

Cassia fistula is steady with good sound Java pod

offering at 32s. 6d. per cwt.

CHILLIES are firm, with Mombasa selling at 160s. per cwt. on the spot. Fine bright Sierra Leone is 130s., and

Japanese 122s. 6d. per cwt.

CINCHONA.—At the auction held in Amsterdam on June 6 969 packages (355 bales and 614 cases) Java pharmaceutical bark offered, weighing 27,360 kilos and containing the equivalent of 1,008 kilos quinine sulphate of this quantity, 275 bales and 430 cases weighing 27,360 kilos and containing the equivalent of 605 kilos quinine sulphate sold at from 32½ c. to 84 c. per half kilo.

CLOVES .- Zanzibar are firm, with sales on the spot at CLOVES.—Zanzibar are firm, with sales on the spot at 9\frac{3}{4}d. per lb. To arrive, July-August shipment has been sold at 9\frac{1}{2}d. per lb. c.i.f.; August-October shipment, at 9\frac{1}{2}d. to 9\frac{3}{4}d. per lb. c.i.f., closing easier with sellers of the latter position at 9\frac{3}{6}d. c.i.f. The landing during the week ended June 9 were 100, and the deliveries 1,010, leaving a stock of 10,483 bales, against 12,683 in 1927 and 16,075 in 1996. The landings of Tanking of Tankin 16,075 in 1926. The landings of Zanzibar during the period January 1 to June 9, 1928, were 9,832 bales, against 13,758 for 1927, and the deliveries 8,878, against 8,678 in 1927.

COCOA BUTTER on the spot is offered at 1s. 8½d. per lb. for C.F.R. and at 1s. 8d. for prime English, in not less

than one-ton lots.

Cop-liver oil.—The fact that the Finmarken fishing which is now closing has proved exceedingly poor, has induced a number of inquiries, and more interest is being shown, particularly for oil for autumn shipment. To-day's quotation for finest new Lofoten non-freezing, steam-refined oil is 165s. per barrel c.i.f. London.

Bergen, June 11.—The catch at Finmarken is extremely limited, and the prospects are not favourable. The total output of all the Norwegian codfisheries, compared with that of previous years, is as follows:-

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		Cateh	steam-rofined	Livers for
	To 4	of eod.	cod liver oil.	crude oils.
June	2, 1928	 62,200,000	49,171 heetol.	- hectol.
7,	4, 1927	 63,100,000	69,318 ,,	6,969 ,,
79	5, 1926	 84,700,000	114,942 ,,	13,841 ,,
,,,	6, 1925	 56,900,000	87,945 ,,	9,535 ,,
May	31, 1924	 62,445,000	105,549 ,,	15,772 ,,

The market is firm, with a rising tendency, non-freezing steam-refined quality being quoted at 167s. per barrel, c.i.f.

CROTON OIL is quoted at 3s. 10d. per lb. on the spot. Dragons blood.—The landings in London during May were 24, and deliveries 11, leaving a stock of 151 against 139 last year.

Ergor.—Russian and/or Polish is quoted on the spot at from 2s. 6d. to 2s. 7d. per lb. as to seller; to arrive, June-July shipment, is quoted at 2s. 4½d. c.i.f.

Galls are steady, with Chinese plum-shaped and ordinary offering at 62s, per cwt. c.i.f. to arrive.

Geraniol is dearer, the approximate value ex Java eitronella being 6s. 6d. per lb., and ex palmarosa about 27s. per lb.

GINGER.—West African is quiet, with spot sellers at 57s. 6d. per cwt. To arrive, June-July shipment is quoted at 55s. 6d. per cwt. c.i.f. London or Liverpool.

GRINDELIA ROBUSTA is offered at 53d. per lb. on the spot.

INSECT FLOWERS remain firm. Dalmatian half-closed are offered at 120s. per cwt. c.i.f., and Japanese closed at 145s. to 147s. 6d. c.i.f., spot being scarce. New crop Dalmatian is expected about the end of July.

IPECACUANHA.—Matto Grosso is quoted at 12s. to 12s. 6d. as to quality and quantity. Minas is 11s. 6d. to 12s., and

Cartagena 11s. per lb.

LIME JUICE has further advanced owing to the demand and scarcity of stocks; new raw West Indian juice is quoted at from 3s. to 3s. 3d. per gallon, and old crop 2s. 10½d. to 3s. Some of the deliveries of new crop have been of poor quality this season.

LOBELIA HERB.—The spot price is about 8d. per lb. and

not 53d. as quoted last week.

MAGNESIUM.—There is a moderate demand, and home makers are doing a steady business on the basis of 4s. The results are using a steady business on the basis of 4s. to 4s. 3d. per lb. for small ingots and sticks, while powder ranges from 5s. 6d. to 6s. 6d. per lb. according to quality and quantity. There is not much Continental offering.

MENTHOL is quiet at 15s. 7½d. per lb. on the spot for Kobayashi and/or Suzuki.

MERCURY.-Following on the particulars given recently as to the heavy shrinkage in the Italian exports for last year, the fact deserves notice that the total is given in an American Consular report at only 39,570 bottles against 54,240 bottles for the previous year. The falling off, therefore, represents no less than 14,670 bottles. This therefore, represents no less than 14,670 bottles. This naturally suggests that stocks have been increased to a substantial extent. There was an easier feeling on Tuesday with sellers at from £22 to £22 5s. per bottle, less customary discount. There has been but little doing lately for the Eastern markets, inquiries having been fewer and far between. The New York market is reported quiet but steady, at prices ranging upward of \$124 per bottle duty paid. The f.o.b. quotation for Spanish mercury for shipment from Alicante still remains at £21 10s.

MYRRH.—The landings in London during May were

MYRRH.—The landings in London during May were nil, and the deliveries four, leaving a stock of 37, against

66 last year.

66 last year.

PEPPER is flat and lower; fair Singapore is now 1s. 6d.; Lampong, 1s. 5d.; Tellicherry, 1s. 6\frac{1}{4}d.; and Alleppy, 1s. 6\frac{1}{4}d. spot; sales include Lampong for April-June shipment at 1s. 3\frac{1}{2}d., and August-October shipment at 1s. 3\frac{1}{4}d. to 1s. 2d. c.i.f. White Muntok is now 2s. 2\frac{1}{2}d. on the spot: sales include August-October at 2s. to 1s. 10\frac{1}{6}d. c.i.f.

PIMENTO is quiet. with sales at 8\frac{1}{2}d. per 1b. on the

PIMENTO is quiet, with sales at 8½d. per lb. on the spot; for June-July shipment sellers quote 74s. per cwt.

Rhubarb.—The landings during May amounted to nil, and the deliveries to 45 cases, leaving a stock of 227,

against 129 last year.

Rubber remains very firm, and although there is no change in price, there has again been a fair business doing. The firmness is due to the cabled advice just to doing. The firmness is due to the capied advice just to hand that the American consumption during the past month has been a "record" one, viz., approximately 38,000 tons, and that the stocks in New York have equally declined. On this account, and with the prospect of again smaller shipments from the East, the tendency of the market is upwards. Last week arrivals totalled 1,196 tons, whilst deliveries were 2,229 tons, showing a decrease in the atolic of 1,077 to 2.20 tons. decrease in the stocks of 1,033 tons. The London stock now stands at 42,683 tons, against 67,454 tons at the there will be a very substantial reduction next week. Quotations (Wednesday, 5 p.m.):—No. 1 standard ribbed smoked sheet, spot and June, 9\frac{1}{2}d.; October-December, 9\frac{1}{2}d.; January-March, 9\frac{2}{3}d. 9^{1}_{2} d.; per lb.

SEEDS.—The conditions of the market remain quiet, and there is not much change to record:—Anise.—Spanish is 50s.. Levant is 34s., and Russian 28s. Canary is firm at Mazagan 16s., and Saffi 15s. 6d. on the spot. Cumin.—Maltese is 56s. and Morocco 52s. 6d. on the spot, and new crop is firmer at 38s. c.i.f. June/July shipment. Coriander.—Morocco is 46s. on the spot, and new crop is easier at 19s. c.i.f. for June/July shipment. Russian is 35s. spot. Fenugreek.—Morocco is 16s. to 16s. 6d. spot, and new crop is offered at 13s. 9d. c.i.f. for June/July shipment. Hemp.—Manchurian is 19s. spot. Linseed.—Mazagan is 21s. on the spot, and new crop is offered at 19s. 6d. c.i.f. for July/August shipment. Mustard.—English is 27s. Fennel.—East Indian on the spot is quoted at 55s. per cwt.; no French appears to be available. Caraway.— SEEDS .- The conditions of the market remain quiet,

Dutch for prompt shipment is quoted at 37s. per cut.

SENEGA.—Tentative offers of the new crop are being made at 4s. 10d. per lb. c.i.f. without actual business. Spot is steady in spite of the proximity of the new crop, offering at 5s. 6d. per lb. The "Carmania" has brought 21 packages from New York.

21 packages from New York.

SHELLAC is quiet, with usual standard TN orange quality offering at 200s.; fine orange is 225s. to 300s.; pure button, 235s.; and AC cakey, 200s. To arrive, sellers of TN for April-May quote 180s., and May-June, 177s. 6d. c.i.f. For delivery, August has been sold at 177s., 184s. to 180s.; October at 175s. to 183s.; and December, 172s. to 178s., closing on Wednesday 175s.

TURMERIC is firmer, both spot and to arrive. Fair Madras finger has been sold at 35s. per cwt. on the spot, with 36s. to 37s. now asked; on c.i.f. terms 37s. 6d. is quoted, with inferior quality at 35s. c.i.f. Cochin split bulbs are quoted at 20s. spot and 18s. c.i.f. to arrive.

Wax (Vegetable).—Carnauba is quiet and unchanged; fatty grey is 125s. spot, while c.i.f. is 119s.; chalky grey is 127s. spot, and 122s. c.i.f.

Essential Oils

Business is very quiet and no article is receiving outstanding attention. Citronella is firmer, while the position of orange seems to be in abcyance pending warmer weather. Coriander, sassafras and wormseed are easier.

The following are the quantities and values of natural essential oils (other than turpentine) imported into and reexported from Great Britain during May, 1928, compared with the same months in 1926 and 1927, also for the five months ending May in the respective years:—

1926 1927 ner lb. 282,435 316.852 . value £101,323 £95,294 do. lb. 2,041,607 1,554,380 value £677,078 £476,972 291,789 May imports (other than turpentine)
Jan.-May imports £105,490 1,699,071 1489,070 42,430 £19,241 363,197 81,844 £34.499 341,196 59,965 £25,256 343,529 do. lb. May re-exports value Jan.-May re-exports do. lb. 363,197 341,196 value £144,054 £148,616 £123,758

BERGAMOT is unchanged at 23s, 6d, per lb, c.i.f. and 24s, on the spot for 37-38 l.a.

Bergamot is unchanged at 25s, bd, per 1b, c.1.1. and 24s. on the spot for 37-38 l.a.

Cassia.—Business is being done in 80-85 per cent. c.a. at 6s, to 6s. 3d. per lb, c.i.f. on the guarantee of freedom from aleohol subject to confirmation by the London Custom Authorities. On a Hong-Kong analysis it is offered at 5s. 3d. c.i.f., but no interest is being taken. The spot value of geniune is about 7s, to 7s. 3d. per lb.

Citronella.—The price position of the Ceylon and Java oils has now become reversed. Ceylon being dearer than Java. This is directly due to the shortage of Ceylon at the source, but as the Java is the source af geraniol—the synthetic substitute for geranium oil—it is highly probable that both will continue firm markets. Java is quoted at 1s. 11½d. per lb. c.i.f. for prompt shipment, 2s. for July-December and 2s. 1d. for 1929. The spot value is about 2s. to 2s. 1d. per lb. There are no offers forward for Ceylon, and the spot value is 2s. 2d. per lb.

Clove is unchanged at 5s. 9d. per lb. for English distilled. Copamba is unchanged at 2s. 9d. per lb. on the spot and 2s. 6d. c.i.f. London.

Corlander.—Genuine Hungarian is easier at 45s. per lb. on the spot and 42s. c.i.f. Final quotations for the new crop will not be available till after the distillations in July, but it is expected that prices will be easier and under 40s. per lb.

but it is expected that prices will be easier and under 40s. per lb.

EUGLYPTUS.—It is reported that cable offers from dealers have been turned down at the source and that an advance is imminent. There is, however, no change in spot prices, and Is. 10d. per lb, is ruling for 70 to 75 per cent.

FENNEL.—Hungarian is quoted at 4s. 11d. per lb. on the

Geranium.—Bourbon is firm at 18s, 6d, to 19s, per lb. on the spot and 18s, 6d, c.i.f. Algerian is steady at 15s, on the spot.

JUNIPER BERRY.-Hungarian is offered at 7s. per lb. on

LAVENDER.—The cultivated plants are expected to be damaged by rains, while, on the other hand, the wild plants are reported to be flourishing. The prospects for the new crop are thus very uncertain. On the spot 15s, per lb. is still ruling for 38 to 40 per cent. French oil.

LEMON.—The sharp advance that has taken place is probably largely due to speculators, acquainted with the

firm position of the oil, who have been buying heavily for some time past. Some is available on the spot at 12s, per lb., while the forward quotation is steady but firm at 13s, 6d. c.i.f. The price paid for contracts for the new crop fruit is reported to have been doubled owing to fear of a short crop judged on the poor flowering of the trees as a result of the torrential rains and hail storms in the late spring

NUTMEG is quoted at 7s. per lb. on the spot.

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ORANGE.—For shipment quotations are a matter for negotiation between the producer and buyer. If the producer regards the offer as on the low side it is generally ignored and very few definite suggestions are made from the source. Sicilian sweet is said to have been bought at 31s. per lb. c.i.f., but 32s. is more general. West Indian sweet is 28s. 6d. per lb. on the spot, while the bitter is quoted at 26s. Offers of 15s. per lb. at Jamaica for new crop, October shipment (an unusual procedure), from this side have been refused as the drought will result in a short crop. Peppermint.—American natural tin oil is unchanged at 13s. to 13s. 9d. per lb. c.i.f. and 13s. 6d. to 14s. on the spot Redistilled is 16s. per lb. on the spot and 15s. 6d. c.i.f. Japanese dementholised is firm at 5s. 4½d. on the spot and 6s. per lb. c.i.f. for Kobayashi and/or Suzuki for June-July shipment.

shipment.

ROSEMARY.—French is steady at about 3s, 9d. per lb. on the spot, while Spanish is unaltered at 2s, to 2s, 3d, according

to quality.

SANDALWOOD.—Mysore is unchanged at 25s. per lb. in single cases, 24s, 6d. in five-case lots, and 24s. in five-case lots in one delivery. There has been no official change in prices since November last.

Sassafras.-More liberal supplies in the primary market have brought easiness in the price position of this off. The price is now 4s, 3d, on the spot and 3s, 9d, per lb, c,i.f.
WORMSEED (CHENOPODIUM) is easier, due to abundant sup-

plies and steadily lessening consumption, at 12s. 6d. per lb.

c.i.f. and 13s. 6d. on the spot.

The following arrivals have taken place from the countries The following arrivals have taken place from the countries indicated during the period June 6 and June 12 (inclusive): Almond (Fr.), 12 cs.; anise (Ch.), 10 dm.; bay (B.W.I.), 11 cs.; bergamot (Fr.), 3 cs.; camphor (Jp.), 34 cs.; cassia, (Ch.), 30 cs.; cinnamon (Fr.), 1 dm.; citronella (Guat.) 2 dm., (Jv.) 20 cs., (Cey.) 4 dm.; eucalyptus (Sp.), 6 dm.; ho (Ger.) 2 cs., (Jp.) 1 dm.; iris and lavender (Fr.), 11 cs.; lavender (Fr.), 3 cs. 2 dm.; lemon (It.) 43 cs., (B.W.I.) 15 cs.; lemongrass (Guat.), 2 dm.; lily (Fr.), 1 cs.; lime (B.W.I.), 10 cs.; mandarin (Fr.) 2 cs., (Sp.) 1 cs.; orange (It.) 2 cs., (U.S.) 39 cs., (Sp.) 9 cs. 2 dm.; (Ger.) 3 cs., (Can.) 5 cs.; orange and lemon (U.S.), 9 dm.; palmarosa (Br. Ind.), 2 cs.; patchouli (Sey.) 16 cs., (Strs.) 8 cs.; peppermint (U.S.), 33 cs. 1 dm.; petitgrain (Fr.), 1 cs.; rose (Fr.), 2 cs.; sandalwood (Br. Ind.), 60 cs.; spearmint (U.S.), 5 cs. 3 dm.; undescribed (Fr.) 1 cs., (Sp.) 6 cs., (Ger.) 4 cs. 10 dm.

Pharmaceutical Chemicals, etc.

CGNDITIONS in the fine chemical market over the past week lave remained unchanged, while the volume of business done seems to have been more limited than usual. In some items in which dealers are primarily interested pricecutting is very severe.

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ACETANILIDE is unchanged, with the market quiet: B.P. crystals and powder, 1s. 5½d. to 1s. 6d. per lb.

AMIDOPYRIN is easier, with fair quantities offering down to 7s. 9d.; small parcels, about 8s. per lb.; market dull.

ASFIRIN.—The advance recorded last week is maintained, while some holders may be willing to accept the old prices: makers quote 2s. 6d. per lb. for five-cwt. lots and 2s. 7d. for one-cwt. Spot holders might take the old rates of 2s. 5d. to 2s. 7d.

BENZALDEHYDE is unchanged on a quiet market: quoted at 1s. 11d. per lb. for f.f.c., in carboys.

BENZOLG ACID (B.P.) is very steady and fair business continues: quantities, ex works, 2s. 0¼d. to 2s. 1d.; small spot parcels, from 2s. 2d. per lb.

BENZONAPHTHOL is steadier at last week's easier rate of 2s. 10d. to 2s. 11d. per lb.; market is quiet.

BENZONAPHTHOL is steadier at last week's easier rate of 2s. 10d. to 2s. 11d. per lb.; market is quiet.

Browness are substantially unchanged, with the volume of business limited. Dealers: ammonium. 1s. 11d.; potassium, B.P., crystals, 1s. 7½d.; granular, 1s. 7d. to 1s. 7¼d.; sodium, B.P., 1s. 10½d, per lb. for quantities, in cases. British makers' list prices are unchanged: ammonium, from 2s.; potassium, from 1s. 8½d. to 1s. 9½d.; sodium, B.P., 1s. 11d. to 2s. per lb. in cwt. lofs. to 2s. per lb., in cwt. lots.

CALCIUM LACTATE is offered in cwt. lots at from 1s. 12d. to

1s. 2d, per lb., and a fraction less for quantity.
CHLORAL HYDRATE.—Makers are reported to have advanced their prices fairly considerably to about 3s. 2½d, to 3s. 3½d. per lb. for duty-paid crystals; some spot stocks may still be available at under these rates, but the market seems very likely to harden in due course.

CITRIC ACID (B.P. crystals).—The amount of business passing, so far as foreign material is concerned, is still distinctly small and quotations are on about the same level: spot quoted at about 1s. 101d. to 1s. 11d. per lb., less 5 per cent. for quantities

CREOSOTE (B.P.) is offered in demijohns from 1s. 8d. per 1b, and slightly more for small parcels.
CREOSOTE CARBONATE is steady on a dull market at from

5s. 10d, to 6s. per lb.

5s. 10d. to 6s. per lb.
GUALACOL CARBONATE has weakened, with offers now down to
4s. 6d. per lb. for quantities; 4s. 8d. for small lots.
HEXAMINE.—Prices seem to have got down to a very keen
margin and it is difficult to say what actual sales rates may
have been: in fair quantities small crystals are offered from
1s. 11d. and free-running crystals from 1s. 11½d. to 2s. per lb.
HYDROQUINONE is steady, with a fair business moving:
half-ton lots, 3s. 8d. up to 4s. 9d. per 14-lb. pareels.
LACTIC ACID is steady and business is moving in good quantities: from 1s. 11d. to 2s. per lb.
METHYL SALICYLATE (B.P.) is unchanged: quantities in carboys from 1s. 4¼d. to 1s. 4½d. per lb.; small parcels, 1s. 6d.
and upwards.

and upwards.

METHYL SULPHONAL remains dull at about 8s. 9d. per lb.

METHYL SULPHONAL remains dull at about 8s. 9d. per 40.

Paraldehyde is steady: quantities in carboys at 1s. 1d. to

1s. 2d.; small lots, in bottles, 1s. 3d. per 1b.

Paraformaldehyde is unchanged, with quantities of 100

per cent. powder, in kegs, offering from 1s. 8d. per 1b.

Phenacetin.—A limited business continues, with prices

unchanged at 2s. 5d, to 2s. 7d. per 1b.

Phenacor is offering on snot at from 3s. 10d. to 4s. per

PHENAZONE is offering on spot at from 3s, 10d. to 4s, per lb, and a point less might be accepted for large quantities. PHENALPHTHLEIN is steady at the controlled prices of 5s, 11d. to 6s, 1½d, per lb., as to quantity.

POTASSIUM PERMANGANATE (B.P.) remains very quiet, but

prices are unchanged, from 51/4d. per lb. for quantities, in

drums; small parcels, 6d.

RESORCIN is steady but quieter: quoted from 3s. to 3s. 2d. per lb.

Salicylic acid (B.P.).—The advance recorded last week

SALICYLIC ACID (B.P.).—The advance recorded last week is maintained, with only large quantities at 1s. 3d.; five-cwt. lots, 1s. 4d.; smaller parcels, about 1s. 6d. per lb. SALOL continues at the controlled prices: cwt. lots, 2s. 4d.; 55 lb., 2s. 5d.; small parcels, 2s. 6d. per lb. SODIUM BENZOATE (B.P.) is very steady and business has, been good: quantities of foreign powder, in two-cwt. barrels, 1s. 7½d. to 1s. 8d. per lb. SODIUM DIETHYLBARBITURATE is dull on spot from 7s. 10d. to 9s. per lb.

3s. per lb.

SODIUM SALICYLATE (B.P.).—Prices here have not, so far, been affected by the advance in acid prices: crystals, from 1s. 8d.; powder, from 1s. 7d. per lb. for large quantities, in

to 6s. 9d. per lb.

TANNIC ACID.—B.P. leriss is well maintained at recently advanced rates: quantities in kegs, 3s. per lb.; small parcels, 3s. 3d.

TARTARIC ACID (B.P. crystals) remains very quiet, but there is no change in the quoted price of foreign at about 1s. 4d. to 1s. 42d. per lb., less 5 per cent., as to quantity.

TERPIN HYDRATE remains neglected: quantities are offered

from 1s, 5d. per lb.
THYMOL is of little interest, synthetic fine white offering at about 9s. 6d. per lb.
VANILLIN tends to harden, as mentioned last week, and the price for cwt. lots is now about 15s. 3d, to 15s. 6d. per lb.

Industrial Chemicals, etc.

London, June 13.

THE feature commented upon in most reports to hand is the distinctly quiet tone of the markets, and business in most directions appears to have been unusually quiet. Prices, however, are about unchanged and the general tone contu ues steady.

ACETIC ACID is unchanged, with business still slow and small in volume: 80 per cent, technical, £36 15s.; 80 per cent, pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66. in glass demijohus; glacial, in barrels, £56 per ton, ex store.

ACETORE remains quiet, but prices are well maintained: B.G.S., in drums, £64 to £67 per ton, ex store.

ALUM continues quiet and unchanged: lump, in casks, about £3 5s. to £8 7s. 6d. per ton, ex store; slightly cheaper ferward.

AMMONIA (ANHYDROUS) is moving well in small quantities, with the market competitive: spot. 9d. to 11d per lb., in loaned cylinders, carriage paid; slightly less for contracts.

AMMONICM CHLORIBE.—Grey galvanising has been very quiet, dealers quoting at about £21 l0s. per ton, in casks, ex store; slightly cheaper for contracts.

AREPNIC is unchanged, but fair sales are being reported for white Compile 1000 per contracts.

for white Cornish 99.9 per cent. on the basis of £17 f.o.r.,

which is the nearest quotation, although some sellers are asking up to £17 5s. Terms for Mexican high-grade for asking up to £17 5s. Terms for Mexican high-grade for shipment c.i.f. Liverpool stand at £17 5s. per ton.

BARIUM CHLORIDE remains slow of sale and at cheap prices:

98 to 100 per cent. prime white crystals, £7 12s. 6d. per ton, in casks, ex store; slightly cheaper forward.

BLEACHING POWDER containes a compensate merket, with quantities on contract at £6 12s. 6d. per ton; one or two £7, carriage paid.

COPPER SULPHATE is quiet, but the undertone is firm: f.o.b. terms for casks for export range from £25 15s, to £26 15s., less 5 per cent., and the home trade price delivered is about £26 15s. to £27 per ton.

CREAM OF TARTAR shows but little activity, and as quoted the market is none too steady: foreign powder is offered from 97s. 6d. to 100s. per cwt., less 2½ per cent., with these prices discounted for important orders.

FORMALDEHYDE is steady but distinctly quiet: 40 per cent.

by volume, £37 per ton, in casks, ex store; cheaper forward

in quantities.

FORMIC ACID is well maintained at from £46 5s. to £46 12s. 6d. per ton for 85 per cent., in carboys, ex store; business has been slower.

ISOPROPYL ALCOHOL is moving steadily in moderate quantities, with keen prices quoted: spot, 10s. 9d. to 11s. 3d. per

ties, with keen prices quoted: spot, 10s. 5d. to 11s. od. Porgallon, in drums.

Lead PRODUCTS.—Lead acetate is unchanged, with the market quiet: spot, brown, £39 10s.; white, £41 10s. per ton, in casks, ex store; red lead, imported, £30 per ton, c.i.f. London; market quiet; white lead, foreign and home makes, dry, £36 to £42; ground in oil, £44 to £52 per ton, carriage paid in U.K.

UNALIC ACID remains quiet, but prices are steady: quoted from £29 17s. 6d. to £30 per ton, ex wharf.

POTASH CAUSTIC.—Convention prices are steady, but busi-

POTASH CAUSTIC. - Convention prices are steady, but business has been poor of late: spot, less than one ton, £36 15s.; one to five tons, £33 5s.; five to fifteen tons, £32 15s. per ton, in drums, ex store; 30s. per ton, less c.i.f. in all cases.

POTASSIUM CARBONATE is reported very dull, but prices are holding: 90 to 92 per cent., £25; 96 to 98 per cent., £26 per ton, in casks, ex store; slightly less for contracts.

POTASSIUM CHLORATE continues steady, with occasional business moving: quantities to arrive at about 3d.; small spot parcels, 34d. per lb., ex store.

POTASSIUM PERMANGANATE is very slow of sale: commercial quality, in two-cwt. drums, 5d. per lb., ex store.

POTASSIUM PRUSSIATE is steady, with a fair business being done: yellow, 6½d. to 6¾d. per lb. for quantities, in casks, ex store; small parcels, 7d.

SAL AMMONIAC.—Business has been unusually poor during the last week or two, but prices on quotation are unchanged: dog-tooth crystals, £29; medium, £28; extra fine crystals, £18 10s. per ton, in casks, ex store.

SODIUM ACETATE is firm and offering in limited quantities

on spot at fully £21 per ton, in casks, ex store.

on spot at fully £21 per ton, in casks, ex store.

SODIUM CHLORATE is unchanged, with a fair business: quantities to arrive, 2\(^2\)d. per lb.; small spot parcels, 3\(^1\)d. to 3\(^1\)d.

SODIUM HYPOSULPHITE.—Business continues fair, with prices unchanged: dealers quote pea crystals from £15 to £15 28. 6d. per ton, in one-cwt. kegs; commercial, £9 10s., in casks, ex store. British makers' price for pea crystals to home consumers on contract, £15 per ton, carriage paid.

SODIUM NITRATE is still quiet and unsteady: 95 per cent., £10 12s. 6d.; 96 per cent. refined, £11 per ton, f.o.r. docks.

SODIUM NITRITE is steady but quiet: 100 per cent. basis, £19 17s. 6d. per ton and 20s. 6d. per cwt., docks, London.

SODIUM PRUSSIATE remains in poor demand. but prices are steady: quantities from 4\(^1\)d. to 4\(^1\)d. per lb., in casks; small parcels, 5d. per lb., ex store.

parcels, 5d. per lb., ex store.

parcels, 5d. per lb., ex store.

SODIUM SULPHIDE as quoted by dealers is quiet: 60 to 62
per cent. solid. £9 5s.; broken, £10 5s. per ton, in drums.

COAL-TAR PRODUCTS, ETC.—Conditions in this section remain
quiet, with quoted values about unchanged. The quotation
for pitch is easier. ANILINE OIL is unchanged: quantities
from 8d. per lb., packages extra, carriage paid. ANILINE
SALT is steady at 8d. per lb. for quantities, packages extra,
carriage paid. BETANAPHTHOL continues in fair call, with the
price for quantities steady at from 10d. per lb., carriage paid. CARBOLIC ACID crystals are oute active and there is good inquiry both from home and abroad: prices remain unchanged at the levels reported last week. CREOSOTE OIL unchanged at the levels reported last week. CREOSOTE OIL is steady on a quiet market: ex works, 7\(^23\)d.; f.o.b., 8\(^34\)d. per gallon, in bulk quantities. CRESYLIC ACID.—Business is quite good and supplies are none too plentiful. NAPHTHALENE remains dull so far as dealers are concerned: flakes and balls, \(^216\)16 15s. per ton, in cases, ex wharf. METHYL ALCOHOL is steady and business has been in fair volume: spot, about \(^245\) per ton, in drums, ex store; slightly cheaper forward in quantities. PYRIDINE remains lifeless and nominal at 4s. 6d. to 5s. 6d. per gallon, f.o.b. Toluol is in some request: commercial 90's, 1s. 8d.; pure, 1s. 10d. per gallon, at works, in quantities. XYLOL is unchanged on quotation, with the market quiet: pure, 1s. 10d.; commercial, about 1s. 7d. per gallon at works. PITCH.—The market is idle, with the quotation nominal at 59s. per ton.

Fixed Oils, etc.

GENERALLY quiet markets are reported and some products are easier on the week, the chief being palm oils. Linsced oil is eacier, while turpentine shows some recovery, and closes higher. ACID OILS remain dull and slightly easier: cocomut and/or palm kernel, 38s. 6d.; groundnut, 31s. 9d.; soya, 28s. spot. Castor remains quiet and tends slightly easier. pharmaceutical, 51s.; first pressings, 45s. 6d.; second pressings, 45s. 6d. per cwt., in barrels, in not less than one-tool lots; Italian, in cases, is 68s. per cwt., ex wharf. Coconut is dull and slightly easier: deodorised, spot, 48s.; Ceylon, 40s. 9d., c.i.f.; Cochin. 53s. c.i.f. Cotton is quiet and easier: s dull and slightly easier: deodorised, spot, 48s.; Ceylon, 40s. 9d., c.i.f.; Cochin, 53s. c.i.f. Cotton is quiet and easier: deodorised, 44s. 6d.; common edible, 43s. 6d.; soap-making. 33s.; crude, 37s. spot. Groundnut is quiet but fairly steady: deodorised, spot, 47s. 6d.; crude Oriental, 42s. 6d. c.i.f. Palm kernel continues quiet but steady: deodorised, 45s.; crude, 41s. spot. Palm has again been slow of sale and prices for all grades are easier: Lagos, 34s. 3d.; softs, 33s. 6d.; mediums, 33s. 7½d.; hards, 55s. 6d. spot. Rape is quiet and unchanged: refined, 46s. 6d.; crude, 44s. 6d. spot. Soya.—Prices are maintained on a steady market: quiet and unchanged: refined, 40s. 6d.; crude, 44s. 6d. spot. Soya.—Prices are maintained on a steady market: deodorised, 45s.; crude, 36s. spot. Linsed (Raw, naked) has remained quiet and prices for all positions are easier: on spot, 30s. 3d.; June, 29s. 4½d.; July-August, 29s. 6d.; September-December, 29s. 10½d.; January-April, 30s. 9d. Boiled oil, spot, 34s. 6d. Hull, on spot, 29s. 1½d.; Juny-August, 29s. 3d.; September-December, 29s. 1½d.; Turpentine.—There was a rather sharp spourt in America near last week's close but this was not long main-America near last week's close, but this was not long maintained, and part of the corresponding improvement on this side was lost under a restricted demand. London deliveries for last week were very good at 2,439 barrels, making a total since January 1 of 48,902 barrels, against 62,510 barrels the same period last year. Stocks were returned at 21,903 barrels, which, together with landings and afloats, made the total London visible supply 26,784 barrels. This compares with 23,963 barrels at the same date last year. The London spot price closed dearer on Wednesday evening at 43s. 3d.; July-December, 44s, 9d. per cwt. RESIN.—There was a temporary improvement last week, but trade buyers on this side were reductant to follow and prices reacted. The latest c.i.f. quotations for shipment from America were as follows: B/D 17s. 6d. to 17s. 9d., E.F. 18s. 1½d. to 18s. 4½d. G/H 18s. 6d., I.K. 18s. 7½d. to 18s. 9½d. M.M. 18s. 10½d. to 20s. 3d., W.G. 21s. 6d., and W.W. 22s. 9d. Delivery ex wharf stands at 9d. per cwt. premium above those rates. Wood.—Hankow on spot, in barrels, is quoted at 80s.; market firm. OLIVE.—French (B.P.) is offered at 5s. 11d. per gallon net, in barrels, ex wharf: edible, 6s. 9d. and Italian edible 8s. 3d. per gallon.

LUBRICATING, MINERAL, BURNING OLLS, ETC.—Fuel oils, white oils and petroleum jellies are easier, while paraffin wax and was lost under a restricted demand. London deliveries

MINERAL, BURNING OILS, ETC .- Fuel oils, white LUBRICATING, MINERAL, BURNING OILS, ETC.—Fuel oils, white oils and petroleum jellies are easier, while paraffin wax and scale are firmer. Lubricating oils are steady on spot. BENZOL continues bright and steady: crude 65's, 11½d.; standard motor, 1s. 4d. to 1s. 4½d.; pure, 1s. 9d. to 1s. 10d. per gallon, ex works, in tank wagons. Fuel oil is easier and rather quiet: 950 gravity, £3 10s.; 890 gravity, £4 5s. per ton, ex tank. Paraffin wax and scale.—The market for wax is firm at from 2½d. to 4½d. per 1b., according to melting point, in bags. Scale is offered for shipment at about £22 per ton, c.i.f. U.K. port. Paraffin oils are steady and unchanged: American water-white, 11½d.: standard white. 10½d. per gallon. barrels free. ex wharf: Roumanian Lubricating. and unchanged: American water-white, 11½d.; standard white, 10½d, per gallon, barrels free, ex wharf; Roumanian kerosene, water-white, 4¾d. per gallon, ex tank. White oils are easier for some grades: special No. 1, £23 15s.; No. 1, £23 2s. 6d.; No. 3 half-white, £20 10s.; No. 4 half-white, £19 10s. per ton, drums and barrels free, ex wharf. Solvent Naphthas are very steady and fairly busy: 90 to 160, 1s. 2d. to 1s. 3d.; heavy 90 to 190, 11d. to 1s. per gallon, naked at works. Petroleum fellies are easier for all grades: white to snow-white, £39 to £48 10s.; amber and yellow, £18 10s. to £22; dark stiff green, £11 17s. 6d. per ton, barrels free, ex wharf. Lubricating oils.—The spot market is unchanged and continues very steady: pales, £9 10s. to £22; reds, £11 to £21 10s.; dark cylinders, £11 15s. to £28; filtered cylinders, £18 to £27 5s. per ton, less 2½ per cent., ex wharf, London; slightly less for tank lots. Soluble oil and curting compounds, £20 to £28 per ton, net. No. 1 Russian oil is offered on spot at about £14 per ton, less 2½ per cent., barrels free, ex wharf.

barrels free, ex wharf.

Port Rates on Formaldehyde

THE Port of London Authority, after negotiations with the British Chemical and Dyestuffs Traders' Association, Ltd., have reduced their port rates on formaldehyde as follows:—Foreign, inwards 2s.; outwards 1s. Coastwise, inwards 1s.; outwards 6d. per ton.

Bulgarian Rose Oil

The growing of roses in Bulgaria, according to a writer in "La Bulgarie," was first begun in the Toundja valley at Kazanlyk, and then extended to the Strema valley (Karlovo region), and the south slope of the Sredna-Gora mountains; plantations have recently been made in the regions of Pechtera and Panagurishté. In 1927 the area occupied by rose gardens in Bulgaria amounted to 5,459 hectares (about 13,650 acres), which yielded 9,782,945 kilos. (about 9,782 tons) of roses. The bulk was grown in the Strema valley; the Karlovo region alone produced 5,678,597 kilos. of roses, or more than half the total grown in Bulgaria in 1927. The first distillation plants, equipped with modern apparatus, were also erected in the Karlovo region. Since these modern distilleries were installed in Bulgaria, the small primitive peasants' stills have been obliged to give way, as they cannot meet the competition of the modern distilleries. There are now (1927) thirty-eight modern distilleries in Bulgaria, and a total of 2,333 plants, against 13.128 in 1905. These modern stills are in the hands of twenty-three separate owners; twenty-two of the distilleries are in the Karlovo region, twelve in the Kazanlyk region, and four in the Ploydiv region. The capital invested in the rose oil industry in Bulgaria amounts to 100,603,874 leva, of which 4,770,000 leva have been spent in buying land, 36,015,000 leva in constructing buildings, and 59,818,874 leva in purchasing machinery and equip-These distilleries consumed 6,879,078 kilos. of white and red roses in 1927, valued at 81,921,272 leva. The number of workers employed in 1927 was 1,069, to whom 3,835,500 leva was paid in wages. The cost of the fuel consumed by the industry in 1927 was 3,032,090 leva. Two-thirds of the roses grown in Bulgaria in 1927, or 6,879,078 kilos., were distilled by the modern factories, which are equipped to handle larger quantities. competition therefore goes on among the factories for the roses, and in order to make sure of a sufficient supply they pay the growers part of the purchase price in ad-cance before the roses are ready to be picked. The vance, before the roses are ready to be picked. The growers, on their side, try every year to increase their prices, and this sometimes leads to conflicts between the growers and buyers. Usually after debates and conferences at which the rose growers, the otto manufacturers, and the Government are represented, an average price is fixed for the year, which more or less satisfies both growers and distillers, and is unanimously accepted by all interested. Apart from the thirty-eight distilleries mentioned, there are twelve co-operative companies producing rose oil in Bulgaria; in 1927 these companies consumed 600,000 kilos, of roses. The rest of the roses grown in 1927, amounting to about 2,300,000 kilos., was distilled by the growers themselves with the use of rather primitive apparatus.

Cuban Beeswax

A REPORT submitted by the United States Vice-Consuls, H. W. Story and William E. Copley, Santiago de Cuba, states that the exports of beeswax from Santiago for 1927 were slightly less than those for 1926, aud gives the following figures: Exports, 1926, 166,688 lb., valued at \$59,849; 1927, 150,996 lb., valued at \$53,049. Less than 10 per cent. of the above amounts consisted of the prime yellow variety so much in demand. Exporters state that prime yellow wax is becoming scarcer each year, and that in a few more years it will entirely disappear. The current wax is also decreasing in quantity with the increase of new types of hives, and beeswax is still considered of less importance than honey. Heretofore, beeswax was an important article of commerce from the port of Santiago, but it is now given little or no consideration. Prices for prime yellow have remained attractive throughout the year, approximating \$0.40 per lb., current grades fluctuated, and only the cleanest lots were accepted for delivery, much of that which is considered "very dirty" being rejected. Total exports to all countries were 528,000 lb. in 1926, valued at \$170,000.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

The Proposed Glyn-Jones Memorial

SIR,-I have read with interest the suggestion that pharmacists should subscribe to a memorial to the late Sir William Glyn-Jones, and earnestly hope that there will be a prompt and adequate response to that appear. It appears to me, however, that the response will depend largely upon the use to be made of the money that is subscribed. Realising the valuable work that Sir William Glyn-Jones did for pharmacy, and taking into considera-tion his many activities, I think most of us had the idea that he was quite a wealthy man. Yet when he died it was discovered that this man, who had spent his life helping other people, had seriously neglected his own personal interests. This remarkable man, who could have amassed a fortune for himself, was no better off than the average pharmacist who devotes his time entirely to his own business. By his services in the House of Commons he secured for retail chemists recognition of their exclusive right to Insurance dispensing, and only those who were actively engaged in the work at that time realise how he risked his whole political career to ensure for pharmacists their claim to dispense National Insurance prescrip-tions. When he was a small, struggling East End chemist he conceived the idea which ultimately secured for pharmacy the benefit of the "known, admitted and approved" exemption, a wonderful achievement, which has enabled chemists to sell so many medicinal prepara-tions unstamped. Those who were members of the Pharmaceutical Council at the time will realise what an extraordinary amount of work he did in order that ex-Service men should have the Government grant for training purposes. If all this work could be capitalised into hard cash what a stupendous sum of money it would represent! The creation of the P.A.T.A., which has ensured an adequate profit to both wholesaler and retailer. shows an increased profit of not less than 10 per cent. on the total turnover, the great bulk of which has passed through the cash tills of the drug trade. A stupendous figure! The difference between the turnover in National Health Insurance as it is to-day and what it would have been if the approved societies had established their own dispensaries is another figure of such magnitude that it is difficult to appreciate. Add to this all those other moral and material benefits which have accrued from Sir William Glyn-Jones' services, and then try to imagine to what remuneration such a man would have been justly entitled for his services. If the drug trade put up a memorial of £50,000 in hard cash, the debt would still remain largely unpaid. Nevertheless, no man can achieve success of that character single-handed. Much of it must be due to those who work with him, and those who look after him. Think of the years that Lady Glyn-Jones spent nursing and helping Sir William in order that he should be fit and well enough to help his fellow pharmacists. Think of the long, weary hours she must have spent alone while he travelled about the country—not earning large sums of money, but giving the best he possessed for the cause he had at heart. The memorial to Sir William Glyn-Jones may take any form that the Memorial Committee may approve-with that I am not concerned; but I would like to suggest that the fund, when raised, should remain unused for its ultimate object during the lifetime of Lady Glyn-Jones. The money should be invested, and Lady Glyn-Jones should be asked to honour pharmacy by accepting the interest on the capital during her lifetime. In my opinion every subscriber to the fund should feel that he has been privileged to subscribe to it; and, far from conferring any favour upon the widow of the man who has done so much for us, he should feel grateful that she should accept what we have to offer. I am sure that the P.A.T.A. and the Pharmaceutical Society have already made, within the limits of their available resources, arrangements sufficient to relieve Lady Glyn-Jones from immediate

financial anxiety. But I am, nevertheless, anxious that we pharmacists should have, as individuals, an opportunity of showing in a practical way how deep is our sense of obligation to her and to Sir William. We can well afford to wait to hear a Glyn-Jones memorial lecture; present-day students can defer competing for a Glyn-Jones scholarship, and the chink of the Glyn-Jones medals may well be postponed for a few years. But pharmacy cannot afford to postpone partial repayment of the debt it owes to the lady who made it possible for Sir William Glyn-Jones to do what he has done for us.

Yours faithfully, HUGO WOLFF.

London, W.

Deductions from National Insurance Accounts

SIR,—The Central Committee now administering the drug fund has just paid me 3s. 11d. in respect of £19 14s. 6d., the amount of my back fees from August to December 1927. The doctors and dentists have got an increase in their scales of recent years, yet the chemist has to put up with losses. Cannot we get together? Surely the R.P.U. cannot call this justice. The Pharmaceutical Committee adds insult to injury by putting up its own expense from 1.5 per cent. to 2 per cent.; why should the Committee not suffer a proportion of loss? Yours faithfully,
Y. A. H. (11/6).

Co-operative Societies

SIR,-Your correspondent, Mr. Simons, in his enthusiasm for the co-operative movement, is begging the question. The discussion is not, I gather, as to whether the co-operative movement is an ideal social institution or otherwise, but as to whether the societies through the people who control this particular department, are following out the constitution of the P.A.T.A. Personally, I do not think they are. The customer receives a direct I do not think they are. Ine customer receives a direct rebate on goods purchased; and as the number of shares held by each member need be (and in most cases is) purely nominal, the question of being shareholders does not enter into it. Being shareholders may have been the original intention of the movement, but practically this is lost sight of in the rush for "divi." If Mr. Simons thinks so much of co-operation, why not let him apply some of this enthusiasm to co-operation in pharmacy, and see that his colleagues are not let down by macy, and see that his colleagues are not let down by the cutting (I use this word advisedly) of P.A.T.A. lines? Co-operation in pharmacy should be our ideal, and it is men like Mr. Simons (who knows how to be enthusiastic and is one of the "brainy fellows"—I was at college with him) who can materially assist by propaganda and example this ideal. Let the slogan for pharmacists be "Co-operation in Pharmacy." Then, and then only, will pharmacy be a "profession fit for gentlemen to be in."—Yours faithfully.

A. Allerbach M.P.S.

A. AUERBACH, M.P.S.

Moss Side, Manchester.

SIR,—Mr. Simons says that if a shareholder in the Austin Motor Co. had bought a car, and if it had been a co-operative institution, he would have received dividend both on his shares and on his purchases. Quite so; but if it was a £200 car, he would have been charged £250, less 10 per cent., so that he would have paid £25 more than if he had bought from a private trader. The only blessing that co-operative societies have is that it makes people save: they charge more for goods, and return the overcharge at the quarter's end. If co-operative societies are run for the benefit of the public, why is there such a struggle to get on the committee? A short time ago one society made their manager a present of £250. Could a private firm do this? I am surprised at Mr. Simons sticking up for the "co-ops.," which are a greater danger to the drug trade than even the multiple firms. If the co-operative devidend dropped to $2\frac{1}{2}$ or even 5 per cent. they would lose half their trade in six months.

Yours faithfully,

JACK POINT (11/6).

SIR,—Mr. Alfred Simons wrote (C. & D., May 26 p. 675), "Co-operative Societies do not cut the prices of P.A.T.A. articles, nor do they give rebate."

"B.L.U.N.T. John" asked him if he were not confusing terms and if he wished to do so deliberately. Mr. Alfred Simons's "reply" in the C. & D. is to congratulate "B.L.U.N.T. John" on his fitness as a publicity agent for "co-op." stores. This is not an answer to a definite question; and his letter is in no way germane to the subject he wrote about. The deduction is that he has no answer to the statement that "co-op. divi" is a rebate on purchases. His use of "co-operation" as a synonym for co-operative societies and "Co-op." business shows that he either is confused himself or wishes to confuse others .- Yours sincerely,

B.L. U.N.T. JOHN (11/6).

SIR,-If a shareholder in a railway company received, besides the ordinary dividend, an amount calculated on the number of journeys he made, this would certainly be classed as a rebate on his ticket. I fail to see the difference in the case of a co-operative society. Retailers have as much right to combine to protect their interests as trade unionists, or to prevent anybody trying to get behind their agreements; why should co-operative socie-ties claim to be privileged? There is no getting away from the fact that the payment of a rebate or "divi," call it what one likes, is a means of getting behind any minimum price agreement; and that is why ordinary retailers object to it.—Faithfully yours,

Non-Co-op. (12/6).

Who Should be Surcharged?

SIR,—In the reports of Insurance Act Dispensing in the C. & D. of June 9 (p. 729), there are further instances of items disallowed for payment. In Sheffield, I notice, in the case of a medicated scap and also with regard to prescriptions for Virol, the Committee decided to recover the cost from the prescriber. Is this procedure adopted in all cases of things not passed for payment, or is it only done at the option of the Committee? Or does it only apply to such supplies as come under the heading of drugs and not appliances? I was under the impression that when any article was disallowed the chemist was the loser; but if the Committee have the power to recover the cost from the prescriber, there is no reason why the chemist should be refused payment for any item which he has supplied when he has reasonable ground for thinking it permissible. A regular adoption of this method by committees in general would go a long way towards placing the drug fund in a solvent condition.—Yours truly,

Two Bottles (11/6).

The Adequacy of the Drug Fund

SIR,-It looks as though the salvation of the panel chemist from the difficulties he is in with regard to the payment of his Insurance accounts might arise from a wholly unexpected quarter. First in East Sussex and now at Dundee patients have been asked to bear the now at Dundee patients have been asked to bear the cost of certain medicines themselves, on the ground that the required articles were too expensive to be ordered on the panel; and in view of this, it seems certain that before very long there will have to be an inquiry into the adequacy or otherwise of the drug fund. For whatever the chemists may have to put up with in the way of discounting of their accounts, it may be taken for granted that the insured person will have to have his medicine, and that through the proper channels, and that medicine, and that through the proper channels, and that he will not long continue to pay out of his own pocket for drugs for which he is supposed to have paid already through his Insurance contribution. Nor will the medi-cal profession accept the dictation of the authorities in respect to the treatment which they consider necessary for their patients. In the case at Dundee, the statement was made that the patient had been supplied with a second script by the doctor with instructions that he could obtain the medicine by paying for it. If the chemist refuses to fall in with this idea, as presumably he should under the Regulations, the insured person would probably the regulations, the histiett person would probably not get the full treatment. It says in the report that the patients were supplied with two prescription-forms; I take it that they were the official forms.

Yours faithfully,

Duplicatum (30/4).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. H. R. (23/85).—PARAFFIN EMULSION WITH AGAR.— Several recipes for a preparation of this type have been published, but there seems to be a difficulty which, so far as we are aware, has up to the present proved to be insuperable, namely, to incorporate a medicinal dose of agar-agar without the product becoming a jelly. This trouble is enhanced when the emulsion is made on a small scale. The following are representative formulas, one being of British and the other of American origin :-

0.5 gm. Gelatin Agar-agar Liowid 5.0 gm. Agar-agar 5.0 gm. Liquid paraffin 50 c.c. Distilled water to 100 c.c.

Soak the gelatin in water 45 c.c. and liquefy, and in this soak the agar-agar for twelve hours. Transfer to a mortar, add the liquid paraffin gradually with constant trituration until a per-fect supension is obtained. The question of a preservative must be considered, as the agar-agar decomposes in aqueous solution. Sodium benzoate is the most suitable preservative or chloroform, the latter helping also to sweeten the preparation. Medicaments, such as phenolphthalein, may be added.

Liquid paraffin Agar-agar ... Acacia 1.0 ... 3.85 ... Tragacanth 0.75 Spt. of chloroform ... 2.0 Tincture of lemon ... Elixir of saccharin ... 0.3 Phenolphthalein ... 1.5 Water ... to 100

Dissolve the agar-agar in 60 c.c. of water which has been raised to boiling point. Heat the oil and add it to the mixed gums, then gradually add the sugar solution.

You will see that one formula has 5 per cent. and the other 1 per cent, of agar. An agar emulsion heavy enough to be permanent, as is the case with the first formula, hardens to a stiff jelly, which cannot be poured out of a bottle unless beaten until the product is cold. The july formula or colling cold. is cold. The jelly formed on cooling should be beaten up the next day. Another method which has been suggested for making this type of emulsion is to boil one part of agar with eighty parts of water, strain, and allow to cool and gell. Mix equal parts of this jelly and liquid paraffin and emulsify for not less than fifteen minutes. The formula for the emulsion used at St. Thomas's Hospital, London, was published in the C. & D., March 3, p. 294.

L. D. (1/86).—Sunburn remedies.—The following are examples of the preparations for which you ask:

Bleaching Lotion Hydrogen peroxide (10 vol.) ... 5iij. Tincture of benzoin... mxx. ... q.s. Perfume to živ. Water ...

TOI	WILLIAM	you	CUSIL		
	Sunt	burn	Loti	on	
Ac.	salicy	l		;	siij.
	acis				5j
Aq.	rosæ		٠.	;	žxiij.
	flor.				
	issolve				
	collor				žij.
The	benzoi	29			71

Apply to the skin of the face and neck before and after washing.

H. M. (8/86).—Bun spice.—The following are from "Pharmaceutical Formulas":-

London Style Pulv. myrist. ... Pulv. macid. ... Pulv. capsici 3ij. ... 3iv. ... 5viij Pulv. cinnam. ... Pulv. zingib. ... Mix and sift.

Essence	
Pulv. pimentæ	Jij.
Pulv. cassiæ	51.
Pulv. caryoph.	3ss.
Pulv. zingib	3ss.
Spt. rectif	3xiv.
Aq	5vj.
Make a nint of	

Make a pint of tincture by percolation, and in the percolate dissolve ol. pimentee 3ss. A teaspoonful to 1 lb. of flour.

J. . G. (9/86).—Ink-removing preparations.—The liquids generally employed are (a) solution of chlorinated lime, (b) weak acetic acid. The ink spot is touched with the lime solution, and when this has soaked in the acid is applied. Afterwards the chemicals are removed by applying moist blotting paper.

Membrane (11/85).—BLEACHING PIGS' BLADDERS.—This can be done by immersing the bladders in sulphurous acid till bleached and rinsing with water. The bladders are then drained and packed in salt to preserve them until they are required for filling with lard.

D. S. K. (India) (17/58).—BOOKS ON AGRICULTURAL SCIENCE.—Bourcart's "Insecticides, Fungicides and Weedkillers" (15s., Greenwood & Son, 1925); Fryer's "Successful Spraying" (Benn, 1923); Ingle's "Manual of Agricultural Chemistry" (7s. 6d., Scott Greenwood, 1920).

A large number of others were given in the C. & D. Diary, 1927.

Legal Queries

S. S. P. S. (8/86).—The use of the title "Head, Liver and Stomach Pills," and "Herbal Pills" does not involve liability to medicine-stamp duty.

II. C. L. (26/4) asks if there is any law which prohibits the use of bottles bearing the name or brand of a particular firm from being used by another person. For instance, is it permissible to fill bottles bearing the name of a particular brand of whisky with a different fluid? [There is no law specifically covering this point, It is a question of fact, in every case, whether the bottle in which a liquid is supplied is included in the sale and becomes the property of the purchaser or is not included and remains the property of the seller of the liquid. The position depends upon such matters as the terms of sale, custom of a particular trade, and previous course of dealing between the parties. Although there is no law which specifically prohibits the use of a branded bottle originally intended for containing a particular liquid from being used for some other liquid, it is easy to imagine circumstances in which such a practice could be stopped, e.g., by means of a "passing off" action.]

Esor (12/86) has hitherto escaped liability for income tax since his income, subject to allowances, has fallen just below the taxable limit. A year ago his wife acquired house property and investments which produce a gross income of about £140 a year. On her behalf, he applied for a refund of the amount of the tax upon that income that had been deducted at the source; but the inspector has replied by sending "Esor" an account showing that instead of receiving a refund he must pay a small amount of tax. The inspector arrives at this result by adding "Esor's" income and his wife's together. Is this correct, seeing that "Esor" derives no benefit whatever from his wife's income? [For purposes of taxition, the separate incomes of a man and poses of taxation, the separate incomes of a man and his wife are added together, and the basis upon which the account submitted by the inspector is drawn up is correct. We notice, however, that the account does not make any allowance in respect of tax deducted from rents by tenants; and before paying the amount demanded "Esor" should make sure that he is not entifled to set off a further sum upon that score. We cannot express a definite opinion upon this point as we do not know the circumstances.]

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," June 15, 1878

Opium-Ducks

In Mr. Baber's recently-published official report on the route of Mr. Grosvenor's mission through the great opium-growing districts of China, between Ssû-chan and Yuman, it is said the whole district is given over, for hundreds of miles, to the cultivation of opium and ducks, called locally "opium-ducks," which frequently supplied Mr. Baber and his party with a meal, and do, he says, really appear to stupefy themselves by feeding on the narcotic vegetable. They allowed the travellers to walk openly up to within twenty yards of them, and even then they rose very languidly. The natives assert that the flesh of these birds is so impregnated with landanum as to exercise a soporific influence on the consumer. But a little more careful verification is necessary before a story of this kind is accepted in all its details. all its details.



[Commenced C. & D., July 5, 1924]

Panel.—Since the adoption in this country of a scheme of National Health Insurance, the word "panel" has acquired a specialised meaning which it did not previously possess. An insured person says he is going "on the panel" when, being certified by his doctor as unfit for work on account of illness, he is entitled to draw sickness. benefit in cash from his approved society. A medical practitioner will refer to his "panel" patients in contradistinction to those he attends under non-contractual A chemist also will refer to the formulas contained in a local Insurance pharmacopoeia as panel medicines. Strictly speaking, however, it is only the doctors and chemists who are "on the panel," for in the same sense in which jurors are empanelled doctors and chemists are empanelled by the Insurance Committees for the various areas. These Committees are authorised to prepare two lists, one of doctors and one of chemists, of those who are willing to provide for the insured persons within each Committee's area the medical treatment and medicines which may be required. The Medical Benefit Regulations provide that:-

(1) The Committee shall prepare a list of the practitioners

(1) The Committee shall prepare a list of the practitioners who have notified the Committee that they have accepted service upon the terms offered. This is to be known as the "Medical List."

(2) The Committee shall prepare a list of the names of the persons, firms and bodies corporate who have notified the Committee that they will undertake the supply of drugs and appliances on the terms offered. This is known as the "List of Persons supplying Drugs and Appliances."

The local Committee elected to represent the persons on

The local Committee elected to represent the persons on List No. 2 is called the Pharmaceutical Committee. But the Committee elected by the practitioners on List No. 1 is given the title of "The Panel Committee," because there is in most areas another consultative committee representative of all the medical practitioners resident within the area, whether they undertake Insurance practice or not, which is known as the local medical com-The procedure to be adopted by a chemist who his name to be included in the "list of persons wishes his name to be included in the "list of persons supplying drugs and appliances" and the conditions of service are explained in the Compendium under "National Health Insurance.

Panelling.—Wood panelling is produced in various forms for different purposes in retail shops and business premises. Oak and mahogany are the most popular varieties, but practically any finish can be obtained to blend with the general colouring of the interior—dark oak for the old-style "atmosphere" of the long-established business, and sycamore and other light finishes for new premises. Where it is desired to divide up a shop or office into sections or departments quickly, in a manner permitting an easy reversion to existing arrangements, a special type of laminated board is now available in panels 3-in. thick, 36 in. to 48 in. wide, and in lengths of from 8 to 16 ft. For the same purpose, specially constructed panelling may also be obtained in the form of ready-to-fix screens, which can be easily erected by the chemist himself. For high-class shops, delightfully-grained veneer panels can be obtained in shades which conform with the fittings and mural decorashades which conform with the fittings and mural decorations of the interior, but for ordinary purposes, panelling made up of deal is quite suitable. The lower sections are moulded and framed up with ply panels, while the upper parts are fitted with glazing beads, and supplied with a special kind of translucent glass. Where desired, the side-screen can be extended with 6-in. scribing pieces about 3 ft. high. The front sections are furnished with a section of cornice and wood rail about 2 ft. 6 in long a section of cornice and wood rail about 2 ft. 6 in. long, to form overdoors, from which a curtain may be suspended. This system of constructing screened-off depart-

ments has a considerable advantage over the built-in method. It is flexible and clastic, and changes and re-arrangements can be effected at little or no experse in a very short time, without calling in workmen. It is advisable that the panelling for the window enclosure shall be of the same material and colouring as that used for the other fittings in the shop, but a pleasing effect can be given to the outer side, which provides the setting for the display, if the central panels in each section are covered with highly-polished and daintily-grained veneer, in a darker or lighter colour, to blend with the sur-round. Special fibre panelling is now obtainable for use for pastel backgrounds, cut-out models, showcards, and so on. This is given a smooth, clean art surface on one side which will take any finish. This type of panelling is useful for temporary display purposes, for it can be employed over and over again, and repainted whenever a differently coloured setting is desired. Portable display panels and screens in 3-ply, laminated woods, fibre, and other materials are extremely useful woods, fibre, and other materials are extremely useful display aids to keep in stock, for they enable the chemist to make frequent changes in his window, and, when not in use, can be packed flat and stored away without taking up a lot of space.

Papain.-Papain, papayotin or vegetable pepsin is a regetable ferment present in the milky juice of the unripe fruit of *Carica papaya*, N.O. Passiflorineæ, a tree indigenous to Mexico, and cultivated for its fruit in several tropical countries. The half-ripe fruit, when scratched, exudes a large quantity of milky juice which, when dry, forms a powder somewhat resembling gum acacia. In practice the name papain is usually restricted to the ferment associated with a proteid substance, obtained by precipitation with alcohol and separation of albuminous matter by basic lead acetate solution. of the ferment. The physical and chemical characters and therapeutic activity of papain and papayotin vary according to the method of preparation. Papain occurs as a white powder with characteristic odour and with astringent and sweetish taste. It is soluble in water and The peptonising power is 1 to 80. dissolves and transforms albuminoids in neutral or slightly alkaline solution, and is given in dyspepsia—dose 2—10 gr. The solution in glycerin has been used as a solvent paint for diphtheric membranes. Injected into the circulation it paralyses the heart; in smaller quantities it appears to favour the multiplication of micrococci in the blood. The fruit of the papaw tree has been long employed in the West Indies to render beef tender, the split unripe fruit being rubbed over the surface prior to cooking. The preparation of commercial papain from the fruits is described in an illustrated article in The Chemist and Druggist of January 30, 1904.

Papain, Commerce.—The production and commerce of papain was described and illustrated in an article in The Chemist & Druggist, of January 30, 1915 (p. 133-136). Ceylon was then, and is still, the chief producer; her exports are variable, but on the whole show an increasing tendency, as will be seen from the following figures (lb.) relating to recent years:—1926, 73,686; 1925, 61,002; 1924, 51,142; 1923, 38,240; 1922, 57,444; 1913, 18,548; 1912, 12,920; 1911, 6,611. The United States, Great Britain and Germany, are the largest buyers. The West Indies and Hawaii produce small quantities, and Samoa is looked upon as a likely producer. producer.

Papaverine, C., H., NO., is a secondary alkaloid present in opium, usually from 0.5 to 1 per cent., discovered by Merck in 1848. Papaverine crystallises in colourless prisms, which melt at 147°, insoluble in water, soluble with difficulty in ether (1 in 250), also in cold alcohol, but easily soluble in hot alcohol, acetone, or chloroform. Solutions of the alkaloid have a bitter taste, and are optically active. Papaverine is a sedative of uncertain action and limited application. It exhibits a sedative action on the bowels, is astringent and antiperistaltic. It is occasionally prescribed in infantile diarrhoa, as well as in various forms of gastric or intestinal spasm, asthma, biliary colic, and conditions of excitability of the involuntary muscles. Papaverine is less potent than morphine as a narcotic, and is an active local anæsthetic. It has

The C.&D. Commercial Compendium

been recommended in insomnia due to external influences. $Papaverine \ hydrochloride, \ C_{20}H_{21}NO_4.HCl, \ forms colourless crystals, melting at 220°221°, soluble in 380 parts of water at 18° The pharmacological action is similar to that of the alkaloid, and it is given hypodermically in place of the pure alkaloid.$

Papayotin .- See Papain.

Paper Money.—As a rule, the term "paper money" is understood to mean bank notes and Treasury notes, both of which are legal tender to any amount. Strictly speaking, however, these notes should be designated as "paper currency," as the wider term "paper money" includes such documents as cheques, bills of exchange and promissory notes, which are a medium for passing money from one person to another.

Paper, Sizes.—For wrapping articles in the nature of medicine it is customary to use white or yellow wove demy (the latter is a bluish-white in colour), which can be obtained ready cut in suitable sizes. Demy is a size of paper which, when used for printing, measures $22\frac{1}{2}$ in. by $17\frac{1}{2}$ in., and when used for writing, 20 in. by $15\frac{1}{2}$ in. For wrapping purposes it is usual to cut the demy into 24's, 16's, 12's, 9's and 6's. The 9's make good 6-oz. bottle papers. As nothing looks worse than paper which has been torn by hand or badly cut, it is worth while to get a local printer to cut a few reams with his guillotine.

Papers, Window-dressing.—There are many varieties of window-dressing papers obtainable from firms specialising in display materials. They are generally supplied in rolls 12 yards in length and 22 inches wide, in numerous colour combinations, in check designs, or with a coloured ground over-printed with two-colour designs. These papers have a glossy finish similar to enamel, and can also be obtained raised or em-bossed. For producing realistic effects in the window, there are several varieties which imitate natural settings, such as heather and gorse paper in natural autumn colours; purple heather paper; buttercup paper, featurcolours; purple heather paper; buttercup paper, featuring buttercups on a field of grass; grass paper which has the appearance of natural green turf, and so on. Papers can also be obtained in rolls or folds imitating the building finish known as "rough cast"; a path of York stone known as "crazy-paving"; a pebbled ground setting; a red brick wall; or oak panelling. These papers are suitable for use on either the window base or enclosure, and can be rolled up after use until required again. Window-dressing papers can also be obtained in the form of sectional backgrounds in three sections. These may be used in conjunction to form a complete scene, the top section featuring a sky view, complete scene, the top section featuring a sky view, being cut to the requisite width to fit the top of the window. Where pelmets are not used in the window, the appearance of the display can sometimes be improved by the use of a window-top paper. These are produced in stout paper, upon which are reproduced scenes and natural settings well suited for use with different seasonable displays. Paper borders for use as a frame, for the window setting, are to be obtained in great variety in rolls 9 to 12 yards long, in varying widths. With imitation marble paper it is possible to produce imitation marble steps, columns, pillars, pedestals and so on. An ordinary enamel bowl covered with this paper surmounting a cardboard cylinder or round tin covered with the same material makes an excellent imitation of a marble was similar to those excellent imitation of a marble vase similar to those used in gardens, and if the basin is filled with crunchedused in gardens, and if the basin is filled with crunched—
up newspapers, covered with sand or moss, this makes
an excellent centre-piece for an "outdoor" window
setting. Crêpe paper is another material which is
invaluable for window-display purposes. This is obtainable in practically every colour from display specialists
in folds or rolls 10 feet long and 20 inches wide.

Papier Maché.—This is made by saturating paper of porous texture with adhesive, applying it to a mould and drying at a fairly high temperature. When a sufficient thickness has been obtained the article is removed from the mould and planed or filed to shape. A stoving varnish

is then laid on and the article stoved. Several coats of varnish are then added, with a stoving after each. Inequalities are removed with pumice stone and the article decorated as required, e.g., with bronze powder, gold or colour. The article is next coated with shellac varnish, stoved and polished.

Papier Mâché Display Aids .- The vogue of the artificial flower for window-dressing purposes has brought into popularity a special type of vase, which has proved itself to be an efficient and attractive addition to the display. The new type of vase is made of papier-mâché, and is rapidly superseding the glass vase and china bowl for display purposes. It will stand hard wear, and does not need such careful handling. In addition, it seems to have an altogether more pleasing effect, and the variety of colours and designs available is large enough to suit a wide range of tastes and requirements, ranging as they do from delicate patterns of Chinese design, and the more ornate balustrade designs in basrelief, to the plain and simple Greek style. In addition to vases, it is possible to obtain bowls of varying sizes and designs. Those with draping rings at the side are particularly useful, for coloured streamers, ribbons or crêpe paper can be hung from them. For use with these bowls, columns of the same colour and material are sold, and the two combined make a fine setting for a window background. A recent addition to display-craft materials is the wall-pocket. Two of these in suitable colours make a very suitable setting for a window. They are arranged to hang on the background or side of the window, and may be used in conjunction with artificial flowers or wall-drapings. For decorating the shop interior, too, these wall-pockets are most effective, and, whilst they eliminate the necessity for the nailing or tying up of festoons, they also form in themselves a very attractive addition to any seasonal display or colour scheme. Where an old-time setting is desired in the window, or where, for any purpose, it is necessary to camouflage the lighting fittings, papier-mâché lanterns in different styles and sizes, with orange silk panes, can be purchased. One type available is in the form of a model of a galleon lantern on a stand wired for electric light.

Paprika.—Hungarian pepper or paprika, Turkish pepper or garden pepper, is a large-fruited pepper, obtained from a variety of Capsicum annuum, cultivate in the U.S.A. and Europe. Apparently indigenous to America, the plant has been introduced successively into Spain, Greece, Turkey and Hungary. The plant flowers in early or middle summer, and the fruit ripens in early autumn. There are numerous varieties. That cutivated in the U.S.A. is marketed in the green state for pickling, cooking, or for the table, and is large, irregularly ovate or conical, depressed or horned at the extremity, and when ripe is greenish yellow to scarlet in colour. The fruits of the European variety when fresh are 5-10 cm. in length, 5-7 cm. in breadth, more—or less inflated, externally of a bright green, yellow, or red colour, the pericarp 2-3 cm. in thickness enclosing a large cavity which has one or two dissepiments at the base and which contains numerous flattened seeds about 3-5 cm. in diameter. Paprika is official in the German Pharmacopodia. In commerce three grades are recognised. Rosenpaprika or Rozsapaprika, which possesses a beautiful red colour and has a savoury taste, is prepared from the selected pericarp and seeds which are carefully washed before grinding, the stems and placentæ being removed. Könugspaprika or Kiralypaprika is prepared by grinding the entire pods, including the seeds and the stems. Mercantilpaprika is prepared from the spotted pods remaining from the selection for the finer grades, and from damaged pods. All the parts are ground. This quality is pale yellow in colour, is much more pungent than the other qualities, and is used to adulter ate genuine cayenne pepper, though it has only one-sixth of its pungency. The ground paprika is known in the U.S.A. as sweet pepper. Inferior grades of cayenne pepper almost invariably contain paprika, adulteration being difficult to detect.

THE SALES of

HOWARDS' ASPIRIN

TABLETS

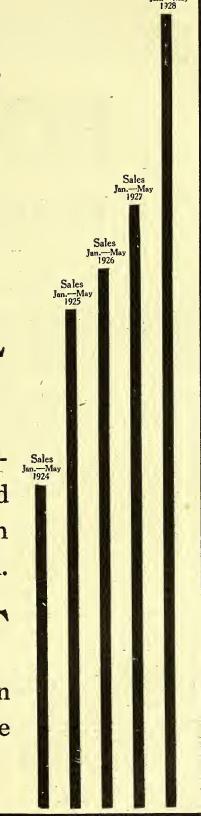
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CHEMICAL AND COPPER WORKS. HAPTON, NR BURNLEY. Enquire from

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Whole & Powdered

HERBS, BARKS, ROOTS, ESSENTIAL OILS. GUMS. SEEDS

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ALKALOIDS

Fine Chemicals Opium Derivatives

ALOIN ATROPINE BISMUTH SALTS CAFFEINE CANTHARIDIN CAPSICIN CHLOROFORM CHRYSAROBIN CODEINE

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Goods covered by Dangerous Drugs Acts offered subject to all regulations.

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Wholesale and Manufacturing Chemists

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LARGE STOCKS

Drugs
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Proprietary Medicine Owners

Our Factory is equipped with the most modern plant. for the making of perfectly compressed Tablets, and it is capable of an exceedingly large output. We manufacture from private formulæ or customers' own material.

If desired, we can provide a distinctive pack, and prepare complete, ready for sale. We offer expert advice, efficient service, and absolute fidelity to formula, with strict secrecy. All enquiries treated in confidence.

May we quote You?

MENLEY **JAMES** LTD. 64 Hatton Garden **E.C.1**

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Manufacturers of COMPRESSED TABLETS

of perfect finish. Guaranteed made with purest Drugs & Chemi-cals, Quick and complete disintegration a special feature-

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GELATINE CAPSULES

machine made of perfect ovoid shape and completely and readily soluble, containing the purest ingredients.



CAPSULES ACCURATELY PREPARED.

For lists of formulas and reasonable prices. together with samples, please apply to-

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Packed HOUSEHOLD AMMONIA in various sizes of bottles to suit all classes of the trade FINEST VALUE EVER OFFERED THORNTON & ROSS, LTD. MILNSBRIDGE, HUDDERSFIELD.

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ACID CITRIC
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Sugar-coated Quinine Tablets and Pills.

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26 GREAT TOWER STREET

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PREFER AND CONTINUE TO USE

"J.M." BRAND



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NAMES (

JAPANESE PEPPERMINT OIL

AND

they are enjoying the HIGHER PERCENTAGE OF MENTHOL it contains.

For Samples and Particulars apply to any dealer in London; if unobtainable, write to the manufacturers direct i

Japan Menthol Manufacturing Co.

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CHEMISTS AND DRUGGISTS

Druggists' Sundriesmen.
Dealers in Surgical Instruments, Dental, Optical,
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Perfumery, and Assay and
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12-14 LAFONE ST., LONDON, S.E.1

PHARMACEUTICAL

A high-density syrup made from Cane Sugar

A well-balanced preparation of Invert Sugar and Sucrose -

Non-Crystallizable _ _ _ _ Non-Fermentable

The ideal base for all syrups where sugar and glycerine are used

Manufacturers: The Nulomoline Co. of New York SOLE DISTRIBUTORS FOR THE UNITED KINGDOM:

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(Dr. Hill's Formula) MEDICINAL SNUFF. ABSOLUTELY THE FINEST REMEDY FOR CATARRH & COLD

IN THE HEAD.

Richard Dickeson & Co.

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57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

Messrs:THOMAS & Trade Mark," Henry's Calcined Magnesia rk: Messrs SCHIEFFELING CO, William Street.



BROTHERS & CO.,

Wholesale and Export Druggists, Manufacturing Chemists and Druggists' Sundriesmen.

EFFERVESCENT LPERIENTS.

Provide NOW for your requirements during the approaching Season. Our

SBAD, GLAUBER, HEALTH SALT AND FRUIT SA

are amongst our leading lines. They are all attractively labelled and packed. Let us quote you and submit samples. DELIVERIES BY OWN MOTOR SERVICE IN THE HOME COUNTIES, INCLUDING COAST TOWNS.

Telegrams: "Ipecac, London."

GRANGE WORKS, LONDON, S.E.1

Telephone: Hop 4362 (3 lines).



IS THE BEST ADVERTISED PRODUCT OF TO-DAY

MONSOL announcements are appearing at regular intervals during May, June and July in The Times, Daily Mail, Daily Express, Daily Chronicle, Daily News, Daily Mirror, Daily Sketch, Evening Standard, Sunday Express, Weekly Dispatch, Yorkshire Evening News, Liverpool Echo, Newcastle Evening Chronicle, South Wales Echo, Edinburgh Evening News, Glasgow Evening Times, Belfast Evening Telegraph, Manchester Daily Dispatch, Bristol Evening Times, Birmingham Mail, Home Notes, Home Chat, Woman & Home, British Medical Journal, Lancet, Practitioner, Nursing Mirror, Nursing Times, and Scottish Nurse.







HAVE YOU taken advantage of the special Bonus Offer and Shop Window Display of Monsol Liquid, Monsol Ointment and Monsol Pastilles now pending? If not, write immediately for full particulars to Thos. Christy & Co., 4-12, Old Swan Lane, London, E.C.4 (Sole U.K. Distributors).

THE MONSOL HOME IS A SAFE HOME

MONSOL LINES ARE ALL-THE-YEAR-ROUND BRANDS

Manufactured by: The Mond Staffordshire Refining Co., Ltd.



NEW LAXATIVE

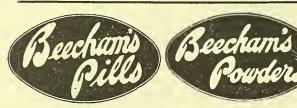
A NATIONAL CHEMICAL HOLDINGS' PREPARATION

An elegant Laxative preparation with the flavour of fresh apples. Reliable, Mild. Effective, Harmless. An ideal form for Children. Put up in pastilles, twelve in a box. A convenient form for travelling. Always fresh, clean and handy.

Price in U.K.: Retails at 1/3 per tin of 12 Pastilles. Per doz. 10/-

THE NATIONAL CHEMICAL HOLDINGS Ltd.

Appleby House, 46 St. James's Place, London, S.W.1



Beecham's Pills

1s. 3d. size -11s. 9d. per dozen 28s. 0d. 5s. 0d. " 54s. 0d.

Beecham's Powders

1s. 3d. size (8 Powders) 11s. 9d. per dozen 5s. 0d. ,,) 54s. 0d.

Less 21% Cash Discount. A further 5% allowed for Window Advertising display. or other

Orders-Minimum Quantity FIVE POUND (Assorted sizes, Pills and Powders). PACKAGES FREE, CARRIAGE PAID. TERMS: CASH WITH ORDER.

All communications to be addressed and cheques made payable to: BEECHAMS PILLS LIMITED.

Sales Office: BEECHAM-VENO Buildings, Chester Road, MANCHESTER

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PERFECT



The prices are PERFECT COLD CREAM.

1/1 2/6 1/8 2/6 4/3 7/jars PERFECT VANISHING CREAM.

6d. tubes

From all Wholesalers or direct from

BROOKS & WA

(American Drug Supply Co.), Ltd.,

40-42 Lexington St., London, W.1

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ENGLAND
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ASPROLTE
BUCKS

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BUCKS

As a result of persistent enquiry from the trade and public who wish to purchase 'ASPRO' in larger quantities, provided some concession can be made, we have pleasure in announcing a new packing in the form of 60 tablets for 2/6. This pack-

ing is now on the market and is available to the trade through the usual wholesale channels. The prices of the new line are as follows:—

Price to Public - 2'6 per packet of 60 tablets
Price to Chemists - 21/- per doz. [No bonus on this size]
PACKING—This pack can be obtained in a neat Silent Salesman containing 1 doz. packets

The 2/6 Size of 'ASPRO' means that your Customers get 10 TABLETS FREE. If you point this out to your Customers you render them a Service, and

DOUBLE YOUR TURNOVER

Chemists are realising the fact that by devoting their window display to advertised goods they are sharing the goodwill of about £10,000,000 worth of advertising yearly. 'ASPRO' is perhaps the best demonstration of this principle that England has seen. 'ASPRO' spends £250,000 a year in advertising and is increasing its appropriation as sales grow. The chemist who places the 'ASPRO' Window Display in his window gets the benefit of the advertising just the same as if his own name appeared in the advertisement.

'ASPRO' is the Chemist's Largest Seller. Send for a Window Display and get full benefit of the £250,000 Continuous Advertising Campaign.

'Aspro' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents:—GOLLIN & CO. PTY. LTD. ('Aspro' Dept.), Slough, Bucks.

No proprietary right is claimed in the method of manufacture or the formula.

Increased Profits on Irving's YEAST-VITE Tablets

On and after APRIL 2nd, 1928, YEAST-VITE Tablets and YEAST-VIMAL will be sold under P.A.T.A. protection as follows:

YEAST-VITE	Sizes	1/3 12 /-	3/ - 28/10	5/- 48 /-	12/- 114/-	24/- 220/- per doz.	Nett
YEAST-VIMAL	New Sizes	7½d 6/~	1/2 11/3	2/2 20/9	5/- 48 /-	9/6 90/- per doz.	30 Days

SPECIAL WINDOW SHOW BONUS TERMS Cancelling all previous Bonus arrangements. For a 14-days' Window Display Bonus will be given as under:

14 to the Dozen on £5 order and over (Assorted Sizes) YEAST-VITE Bonus on 1/3, 3/- and £3 5/- sizes only. 13 No Bonus on 12/- or 24/- sizes, or less than \frac{1}{2}-dozen 5/- size.

Bonus. Order. Order. Bonus. 3 doz. 1/3 £1 16 0 **EXAMPLES** 3 only 1/3 4 doz. 1/3 £2 8 only 1/3 11 ,, 8 10 0 12 0

£5 15 3 EXTRA PROFIT £1 4 0 £3 16 10 EXTRA PROFIT 6/9 YEAST-VIMAL 13 to the Dozen on £3 order and over (assorted sizes).

The Prominent Display of New and Attractive Show Material Will Double Your Sales. Write for Photographic Illustrations (with sizes) of New Showcards, Cut-outs, etc., sent FREE and carriage paid on request.

IRVING'S YEAST-VITE LIMITED

*Phone: Clerkenwell 4623 (2 lines). 12-16 LAYSTALL STREET, CLERKENWELL, LONDON, E.C.1

RHEUMATISM, NEURALGIA, GOUT.

Dr. BENGUÉ'S ETHYL CHLORIDE. Dr. BENGUÉ'S DRAGÉES.-EUPURGO. PULMO (BAILLY). - FORXOL - OPOBYL. ANESTILE .- NARCOTILE .- HEMOSTYL LIPIODOL. - MUTHANOL. - ARHEMAPECTYL. ENTERO ANTIGENS.—STAPHYLOTHANOL. NEOPANCARPINE, RICARD'S CACHETS.

BENGUE & CO., LTD., MFC. CHEMISTS, 24 FITZROY STREET, LONDON, W.1.

THE PHYSICIAN'S REMEDY

ENJOYS AN INCREASING SALE

Liberal Trade Terms Powerful Advertising

Powders and Tablets Retail at 1/3 and 8/

Write for WINDOW DISPLAY & other PUBLICITY MATTER to - - Cephos, Ltd., Blackburn.

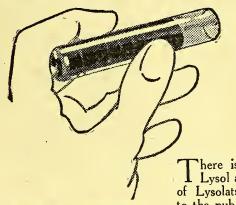
CAN BE VERY SUCCESSFULLY **FEVER** COMBATED WITH

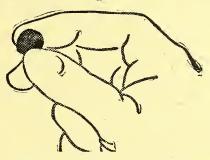
(A Serum discovered by Prof. Dunbar in 1903)

For literature and prices apply to the distributing Agents

WILLOWS, FRANCIS, BUT THOMPSON. LTD. 89a SHACKLEWELL LANE, LONDON, E.8

People will demand the safe form of Lysol





There is no need to remind chemists of the popularity of Lysol as an antiseptic and disinfectant. With the discovery of Lysolats a safe and handy form of Lysol is at last available to the public.

Stock now and stock well

Powerful press advertising will teach people the convenience of these Lysol tablets. There is now no need to taint spoons in measuring Lysol, there is no possibility of using wrong quantities, no risk of spilling or accidentally drinking a highly caustic liquid. Further, the Trade are relieved of the anxiety of dispensing caustic liquids and dangerous poisons to ordinary people. Lysolats are already in great demand; this demand will increase a hundredfold when the public see the advantage of safety stressed over and over again in their newspapers.

Lysolats are being manufactured in huge quantities. Early orders will greatly facilitate the distribution that is necessary to meet the increasing demand.



LYSOLATS
PATENT 118667 (LYSOL TABLETS)

Tins of 40 (selling at 1/3).

Wholesale Price: 10/6 ... per dozen Tins of 80 (selling at 2/-).

Wholesale Price: 18/- ... per dozen

SOLIDOL CHEMICAL LTD., 16 St. Helen's Place, LONDON, E.C.3 and Ashmead Works, Disney St., S.E.1

People DO catch colds in Summer, and they WILL have the best remedy.

Keep well stocked all the year round.



IT BEARS A HANDSOME PROFIT FOR YOU.

PRICE PROTECTED AT FACE VALUE.

W. T. OWBRIDGE, Ltd., The Laboratory, Hull.

Poisons.

You must keep a Register.

It is much more satisfactory to have one which is quite PRIVATE. The purchaser need not see any of your business. Our page to an entry book prevents that. A correspondence card always in the book, with an elastic band, "keeps the place" and covers the left-hand leaf when filled in.

Price, 250 leaves, $4\frac{7}{8} \times 4$ (500 entries), 4/6.



"Multum in Parvo."

"VAPOFORM" Disinfectant
Regd.

For disinfection of Rooms and HOSPITAL Whatever on Farniture, Utensils, &c.

Small size, capable of disinfecting 1000 to 2000 cubic ft., 8/6 per doz.
Large size, capable of disinfecting 3000 to 6000 cubic ft. 13/- per doz.

Sole Proprietors—
HARKNESS, BEAUMONT & CO., LTD.
Wholesale Chemists, EDINBURGH.

And its Kindred Preparations, are Dependable, Quick-selling and Profitable to the Chemist.

THEY SATISFY BUYERS AND BRING REPEAT ORDERS!

IGLODINE, the Ideal Home Healer, is Highly Recommended by the Medical Faculty, and Retails at 10½d., 1/6 and 3/- per Bottle. IGLODINE Specialities include — EMBROCATION, TOILET SOAP, OINTMENT, CREAM, THROAT TABLETS, SUPPOSITORIES, SHAVING STICK, PASTILLES, NASAL DOUCHE, SALICYLATED: Also FIRST-AID OUTFITS.

P.A.T.A. Photo-Litho Showcards. Window Display Scheme.

Particulars and Prices from

THE IGLODINE Co., Ltd., NEWCASTLE-ON-TYNE.

SHEN WORKS TOWER BRIDGE RD. LONDON - S.E.1

ROBERT BLACKIE

Wholesale Manufacturing Chemist

> Telephone: HOP 2422 (Two Lines)

Telegrams:

"USHENSPUNA,

LONDON."

The Creams and Ointments of Distinction

are

"SPUN"

(REG. TRADE MARK)



One of our travellers made a call the other day on a Chemist friend and asked why he was not stocking 'Yadil.' The Chemist said "I have Thirty pounds' worth in stock." "Then where is it?" asked our representative.

"Oh, I never show it," said the Chemist;
"I keep it under the counter. See here," and he produced a pint bottle.

A customer had just come in and was awaiting attention. When he saw the 'Yadil' he leaned forward eagerty. "What," he said, "do you stock 'Yadil." I have been sending away for my supply as I never saw any in your shop and thought you did not keep it will have that bottle and will tell my friends they can get their supplies here."

During the course of the Chemists' Exhibition we had many chats which showed that a proportion of our customer-friends had got into the habit during the last two or three years of stowing away their 'Yadil' stocks out of sight. Our representatives have made mention of the same fact. Show 'Yadil' and you will sell it! We are steadily inducing more of our old friends to give counter displays and window shows. The results are uniformly good. More than one Chemist has expressed himself as amazed at the quick response. We are only too pleased to supply special advertising material for display purposes on request.

YADIL PRODUCTS (1925) LIMITED Sicilian House, Sicilian Avenue, LONDON, W.C.1.

AGE

OF ITSELF COUNTS FOR NOUGHT. IT IS THAT WHICH HAS BEEN ACCOMPLISHED WHICH MATTERS. WE HAVE BEEN IN BUSINESS SINCE

1746

SUCCESSFULLY ACCUMULATING AND APPLY-ING KNOWLEDGE FOR ONE OBJECT ONLY—

OUR OWN SUCCESS

---WHICH WE REALISE HAS BEEN ATTAINED BY

HELPING OUR CUSTOMERS

YOU CAN RELY ON OUR QUICK AND RELIABLE SERVICE FOR

CHEMISTS' SUNDRIES
DRUGS & CHEMICALS

PROPRIETARIES & PHOTOGRAPHICS

"NEWBERYS"

CARDIFF: Crichton Place. CHARTERHOUSE SQ., LONDON, E.C.1

LIVERPOOL: College Lane.



Saint-Raphael

Tonic, Restorative, Digestive Wine.

Known throughout the World, and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children and the Aged.

DOSE: One wine-glass after the two principal meals.

Recommended by— Prof. BOUCHARDAT, Professor of Hygiene, Paris Faculty of Medicine. Dr. MacNAUGHTON JONES, London, England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie Ros on Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laennec, &c."— Union Medicale, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—The Lancet, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—Dr. C. Des Barres.

Cie du VIN SAINT RAPHAEL, Valence, Drome, FRANCE.

> To be obtained from all Wholesale Druggists.



Blackwell, Hayes & Co.

LIMITED

For 50 YEARS

Specialists in

FLA VOURS

Fruit Essences and Harmless Colours

Bulk or Packed

ALL PRODUCTS GUARANTEED TO CONFORM TO THE FOOD & DRUGS ACT

MOOR STREET & ALBERT STREET BIRMINGHAM

Wires: "Blacwelaze, B'ham."

go the Horlick's sales. Extensive advertising on new lines is increasing the demand every day. displaying you Horlick's prominently?

Made in England by HORLICK'S MALTED MILK CO., LTD., SLOUGH, BUCKS.

for Infants and Invalids

WELL ADVERTISED to the GENERAL PUBLIC.

SAMPLES, ADVERTISING MATTER and SPECIAL DISPLAY TERMS ON APPLICATION TO:

ROYAL FOOD MILLS, LONDON, N.16

The ideal milk sugar for babies. We are having direct orders from all parts of the country. Why not participate in this business?

For terms write to Proprietors

MAWSON & PROCTOR, LTD.

NEWCASTLE-ON-TYNE.



Photo Wilse

Favourable Climatic Conditions.

By far the greater part of the cod, the liver of which is used for the production of Norwegian codliver oil is caught in the winter and early spring, when the temperature of the air is low, i. e. from about 19° to about 39° F.

This, in conjunction with the fact that the distance from the fishing grounds to the refineries is never long, ensures perfect freshiness. Norwegian medicinal codliver oil is unexcelled in vitaminicontent, and is practically tasteless and odourless.

Anti-rachitic



Growth : promoting

NORWEGIAN MEDICINAL CODLIVER

OIL

FABRITIUS, OSLO

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

22 Water Street

523 Salisbury Hee Finebury Circus LONDON.

Deansgate Arcade
MANCHESTER.

Martineau Street
BIRMINGHAM.

Wellington Chambers LEEDS.

PETROLEUM JELLY

Best qualities Yellow and White B.P. Red Veterinary and Green.

GOUGH, KIDSTON & CO. 43/45 Gt. Tower Street, London, E.C.3

Tel. No.: Royal 2666 & 2667. Tel. Add.: Kidstonism, Bilgate, London. Also GUM ARABIC and TRAGACANTH BEESWAX and JAPAN WAX. Works: Bermondsey.
Tel. No.: Hop. 2029.



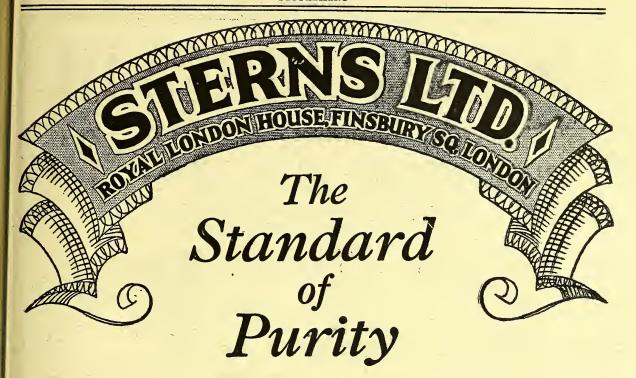
REGISTERED FOR OUR WELL-KNOWN BRANDS OF CERESINE WAXES.

CERESINE WAX

WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES
BEESWAX WHITE, VELLOW PARAFFIN WAX ALL MELTING
OZOKERITE WAX ALL MELTING
OZOKERITE WAX ALL MELTING

POTH, HILLE & CO., LTD.,

6 Lloyd's Avenue, London, E.C.3.



STERNS LIQUID PARAFFIN B.P.

Colourless, Tasteless, Odourless. All Specific Gravities.

PETROLEUM JELLIES B.P.

White, Lemon, Yellow, Amber, Red, Green.

WHITE AND COLOURED OILS

Yellow, Green, Red for Brilliantine, etc.

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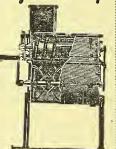
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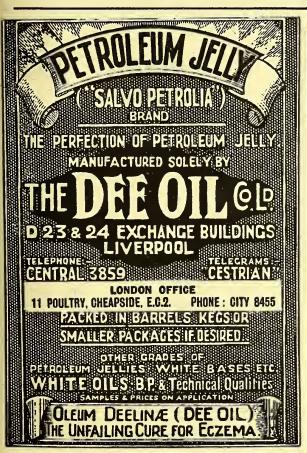
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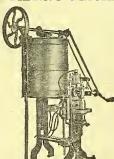
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JUNE 16, 1928.

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3.—LONDON, W.—Three Light Retail and Dispensing Businesses for Disposal; combined turnover about £8,500; vendor would sell as whole or separately; further information on inquiry.

4.—CAMBERWELL GREEN (Near).—General Retail Business with N.H.I. Dispensing; returns £100 monthly, under management; scope for increase under personal supervision; single-fronted, lock-up shop, well fitted and stocked; 20 years' lease; price £700, or near offer.

5.-MIDDLESEX (Northern Suburb).-Family Retail and Dispensing Business, with Kodak Agency, etc.; returns £40 weekly; audited accounts; scope for considerable extension; very good living accommodation; garages; rent £70; held on lease. Further details on application.

6.-LONDON, S.W.-Family Retail and Dispensing Business, with N.H.I.; returns approach £1,600 at good prices; rent £80; held on lease; good house, with garden and side entrance; price £1,200.

7.—EALING (Near).—General Retail Business, with Kodak Agency; returns £40 weekly under management; handsome modern double-fronted shop, very well stocked; flat over pharmacy; bathroom; lease 18½ years to run. Further details on application. application

8.—EASTERN COUNTY (Market Town). — General Retail Business with small Optical connection; returns average £95 monthly, at good prices; double-fronted shop; house contains 7 rooms, private entrance; 21 years' lease; rent 15s. weekly; price £550.

9.—TUNBRIDGE WELLS (Near).—General Retail and Dispensing Business, with Photographic; returns, present rate, £50 weekly; scope for increase; stock and fixtures estimated at £1,750; good living accommodation; garden; rent £125 per annum; long lease; price £2,500.

10.—DEVON.—Very old-established General Retail and Dispensing Business, with Optical and N.H.I.; returns over £2,000 per annum; net profit, £800; accountant's figures; vendor owns the property, which he would sell or lease; illness cause of sale. Further details on application.

11.—SOUTH-WEST COAST.—General Retail Business, with Kodak Agency; returns last year £1,300; net profit £320; chartered accountant's figures; large double-fronted shop; 18½ years' lease; rapidly growing district; price £850, or £150 for the lease and goodwill, plus valuation of stock and fixtures; vendor is desirous of effecting an early sale.

12.—HANTS.—General Retail and Dispensing Business in main road of well-known town; returns approach £40 weekly; handsomely fitted shop, well stocked; held on lease; flats sublet at profit rental; terms, valuation of stock and fixtures and sum for goodwill to be agreed.

goodwill to be agreed.

13.—EAST COAST.—Cash Retail and Photographic Business; returns last year exceeded £1,200; this year (with good season) should be materially increased; net profit roughly £350; estimated value of shock and fixtures £850; lock-up shop; flat optional; good position in main road; price £800.

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2.—WARKS.—Old-established Business, Chemist and Optician; on lease with 3 years to run, with option of purchase; rent £50 p.a.; house attached let off £50 p.a. on monthly tenancy; returns £16-£17 p.w. Full particulars on application. (155)

3.—BRIGHTON.—Retail Dispensing Business; premises consist of single-fronted shop; 15 ft. frontage, with dispensary and large basement; held on lease 17 years at £52 p.a. inclusive; returns average £20 p.w.; can be increased. Full particulars on application. (147)

4.—BLACKPOOL.—Corner shop, two windows, in first-class thoroughfare; takings about £1,750 p.a.; 5 years' lease can be arranged at £100 p.a.; stock and fixtures about £100. (164)

arranged at £100 p.a.; stock and fixtures about £100. (164)
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6.—LANCS.—Old-established Chemist's Business, with Post
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obtained, or property purchased for £1,200; returns, £15 per
week, all cash; rent, £78 p.a.; living accommodation; price
asked, £750. Enllest particulars on application. (142)
7.—NORTH-WEST DISTRICT.—Family Retail Dispensing
Business; double-fronted corner shop, with room at rear; flat
with side entrance, consisting of three rooms; two garages; held
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returns average £20 p.w.; can be increased. Full particulars on
application. (146)
8.—CLAPHAM. S.W.—Large corner shop premises situate in

application. (146)

8.—CLAPHAM, S.W.—Large corner shop premises situate in main busy thoroughfare; old-established Family Retail Dispensing Business, with Optics; excellent dwelling accommodation consisting of 10 rooms; lease will be granted 21 years; £200 first 2 years, £250 remainder of term; returns average at present £3,000 p.a., can be considerably increased. Fullest particulars on application. (163)

9.—DORSET.—Old-established Family Retail Dispensing Business; returns £1,800 p.a., all cash; owner retiring; large shop, fitted mahogany; well stocked; good honse attached (at present let at £110 p.a., lease expires October next); property for sale, with business open to offer. Further particulars on application. (153)

10.—CAMBRIDGESHIRE.—Old-established high-class Dispensing and Retail Business; held on advantageous lease; well fitted and large stock carried; returns approximately £3,000, at good profit; excellent living accommodation; every investigation invited. Full particulars on application.

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12.—BERKS.—Established Pharmacy; lease 6 years to run, with promise of renewal 14 or 21 years; rent £46 p.a.; large 7-roomed house attached; garden and garage. Further particulars on application. (157)

13.—GRIMSBY.—Retail Dispensing Business, on main road; vendor's property; lease will be granted at £104 per annum; returns £38 to £40 per week; stock about £750; owner desires to leave district on medical grounds; quick sale desired. (159)

14.—CAMBRIDGE (Near).—Old-established Pharmacy, on lease 20 years at £50 p.a.; returns average £13 per week; donble-fronted shop, with good dwelling accommodation. Further particulars on application. (131)

15.—CHESHIRE.—Retail Family Dispensing Business; single-frented shop; good living accommodation; held on lease, five years, at £130 per annum; established 20 years; returns average £32 per week. Full particulars on application. (152)

age £52 per week. Full particulars on application. (152)
16.—CORNWALL.—Chemist Business, recently cstablished; lease will be granted for 10 years at £100 per annum; donblefronted shop; nicely fitted; well stocked; returns last year £1,500; very large house attached; private entrance; large garden (garage at rear, let off). Further particulars on application.
17.—LONDON, S.W.—Very old-established Family Retail and Dispensing Business, occupying prominent corner position in busy thoroughfare; lock-up shop with storage accommodation; held on advantageous lease at £100 per annum; returns approximately £2,500 per annum; can be increased under personal management; full particulars on application. (148)

18.—PLYMOUTH.—Very old-established Retail Dispensing Business; for immediate disposal owing to illness of owner; lease will be granted; part let off at £28 12s. p.a. to excellent tenant; returns £40 per week; double-fronted shop; optical testing room; three stock rooms, all on ground floor; recompended; further particulars on application. (162)

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an early sale; price £2,000.

3.—SOUTH-EAST COAST.—Light Cash Retail, with Kodal Agency; returns about £1,900; net profit over £600; low rent long lease; good stock; price £1,650.

4.—TUNBRIDGE WELLS (Near).—Unopposed good Country Business; pleasantly situated; returns £1,450; books audited nice house; low rent; on lease; fully stocked; price £1,150.

5.-SUSSEX COAST.-Good-class Retail and Dispensing Business, with Kodak Agency; returns average £2,000; good profits; fine position; fully stocked; owner retiring; price £1,600.

6.—LINCS. (Market Town).—Old-established Retail, Dispensing and Agricultural; returns £1,300; plenty of scope; lock-up premises; good house available; price simply valuation, about £300, property £350.

7.—HOME COUNTY.—Good-class Family Retail, with Optics; practically unopposed; returns £1,800; net profit £578; modern house and pharmacy; long lease; price £1,500.

8.-LONDON, S.W.-Middle-class Cash Business, in busy main road position; present returns £1,700, increasing; net profit £400 last year; books audited; good stock; price £1,400, or offer.

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HAS NOW OPENED CITY OFFICES AT SOUTHAMPTON ROW, LONDON, W.C.1 where enquiries is Sale, Purchase, Stock, Valuations, Accounts, and Income Tax matters can be conveniently dealt with.

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CHARLES C. MARSDEN CHEMISTS' VALUER, TRANSFER AGENT & STOCKTAKER

44 SHOLEBROKE VIEW, LEEDS.

I have for sale the following Pharmacies, each with house. BRADFORD and LIEDS District.—Turnover f.746, rent and rates, 28/-, price f.300. Turnover f.900, rent and rates, 20/-, price f.500. Turnover f.1,660, price f.800. Turnover f.2,600, rent f.90, price about f.1,800.

SALE BY AUCTION.

Re J. L. Henshaw, in Bankruptcy.

28 HIGH STREET, DONCASTER.

J. H. CROUCH & SON are instructed by the Trustee (Parkin S. Booth, Esq., Liverpool) to Sell by Auction, on Thursday, June 21, the Valuable FIXTURES, FITTINGS and UTENSILS of a Chemist's Shop and Ladies' Hairdressing Saloon, including Permanent Waving Machines, Electric Brushing and Drying Machine, Inlaid Mahogany and Oak Furnishings, valuable Mahogany Shop Fittings, Opticians' Requisites and Miscellaneous Trade Freets

Mahogany Shop Fittings, Opticians' Requisites and Miscellaneous Trade Effects.
Catalogues from the Auctioneers, 6 Hallgate, Doncaster.
The Stock-in-Trade will be Sold by Auction at the Hallgate Auction Rooms, Doncaster, on Tuesday and Wednesday, June 19 and 20th (the Dispensing Drugs and Chemicals on Wednesday, June 20) at 2 p.m. The Poisons are for Sale by Tender. Particulars from the Auctioneers.

BUSINESSES FOR DISPOSAL.

The Advertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BRIDLINGTON.—A bargain, consequent upon death; excellent opportunity for young, qualified man; old-established Pharmacy, in principal street; about £425 at once will buy up-to-date stock and fixtures; no goodwill; receipts average tast three years £1,150.

Bridlington, E. Yorks.

DEVON.—Unopposed Business for Sale in rapidly developing suburb of a leading South Devon seaside town; stock and fixtures at valuation. 134/23, Office of this Paper.

ESSEX.-Profitable, well-established Retail Dispensing Business with Photography; returns approaching £4,000; price to be arranged; full details to genuine buyers giving references. 134/10, Office of this Paper.

CLOUCESTER.—Cash Retail and Dispensing, N.H.I.; main road; corner shop; good house attached, with garden; electric light throughout; present hands over 19 years; good profits; rapidly growing district; owner giving up in August; a sound offer; rent, £64; price £700, or near offer. 134/35, Office of this Paper.

KENT.—Returns over £5,000; sound and profitable old-established Business. Details upon receipt of satisfactory references. 132/27, Office of this Paper.

LANCS.—£450 purchases established Chemist's Business in thickly populated area; neglected, under management, for past three years; turnover £700; Kodak Agency; rent £26; cn lease or agreement; large scope for increase by energetic man; stock and fixtures in good condition; genuine reasons for disposal. 135/14, Office of this Paper.

LANCASHIRE.—A well-appointed Pharmacy situate in a splendid residential neighbourhood is about to come on the market for Sale through illness; double-fronted shop; Kodak Agency; beautifully fitted and excellently stocked; easily worked and low everhead expenses; net profit over £500 per annum; C.A. figures; large Private Dispensing; little N.H.I.; no serious opposition or any chance of same; an opportunity seldom presented; cash buyers with £2,125 please apply, with references; no agents. 151/80, Office of this Paper.

LONDON, N.W. (within 12 miles' radius).—Magnificent opportunity for smart up-to-date Chemist to secure a prominently situated business; excellent windows; good stock; long lease curvery favourable terms; £30 per annum; part let off; returns £750; no N.H.I.; good Photographic; some Optical, capable of great development; price £750; first close offer secures; preference given to inquiries accompanied by banker's and/or trade references. "Veracity," 133/33, Office of this Paper.

LONDON SUBURB.—A well-stocked and beautifully-fitted double-fronted shop; opened as a branch two years ago and been under indifferent management; excellent position in a gccd-class district. 135/32, Office of this Paper.

SEASIDE (Essex).—Light Retail; compact; profitable; well fitted; nicely stocked; lock-up; back room; good position; good-class neighbourhood; same hands over two years; returns about £630; live man should easily double; price about £350, or by arrangement; please note, offer is genuine and bears investigation; ill-health makes sale necessary; viewed any time. "Genuine," 134/11, Office of this Paper.

SEASIDE Business for Sale (Lancashire); good residential trade; double-fronted shop with house attached; reasonable tent; long lease; no serious opposition; Kodak and Ucal agencies; splendid opening for Optics; satisfactory reason for selling; full particulars to genuine buyers giving references; cash required about £2,000. 134/27, Office of this Paper.

SOUTH COAST.—Good-class Pharmacy in main road; turnover £40; Kodak Agency; easily run; very low expenses; owner would consider an exchange for country business; valuation terms; may be viewed any time. 132/23, Office of this Paper.

SOUTH WALES (colliery district).—General Retail, with N.H.I. Dispensing; Medicated Wine Licence; unopposed; average returns last two years over £1,600; premises can be purchased; or lease, £70; price, stock and fixtures, about £1,250. 125/16, Office of this Paper.

SOUTH COAST TOWN.—A good-class Cash Retail, Dispensing and Photographic Business, with Kodak Agency; double-fronted lock-up shop in main road; increasing turnover; at present showing net profit of between £475 and £500; a splendid opportunity for an energetic and progressive Pharmacist; price, £1,100. For further particulars of this roa'ly genuine business apply 154/8, Office of this Paper.

SOUTH YORKS. (industrial area).—Smart little Pharmacy; turnover, under management, £650, increasing; Kodak Agency; lock-up shop; low rent; main road; satisfactory reasons for disposal; unique opportunity; price £350. 134/21. Office of this Paper.

PA TOWN IN WEST.—First-class Business for Sale, in beautiful locality; opportunity for man with capital or a company; plenty of room for increase in every branch of the business; opening for Optical work; premises can be acquired. 153/12, Office of this Paper.

WALSALL.—Profitable General Retail, Dispensing and Kodak Business in populous district for Sale; returns last 3 years average nearly £17 per week; rent and rates £65, and include excellent house with bath, electric light, and garage; splendid opportunity, especially for beginner; price £400; satisfactory reasons for disposal. 132/3, Office of this Paper.

YORKSHIRE.—Main road; shopping centre; single-fronted; lock-up; electric throughout; basement; turnover £1,400; N.H.I. over £100; expenses low; living accommodation if required, either on or off premises; splendid opening Optics; good reason for disposal to genuine applicants; lease, stock, fittings, utensils, price £650, or valuation terms entertained; a unique opportunity. 132/16, Office of this Paper.

WORKSHIRE.—Branch Business; returns £1,250, under manager; genuine concern, no sidelines; valuation, stock and fixinres, about £750; very favourable fease would be granted; fine site, with good living accommodation. 128/471, Office of this Paper.

A TTRACTIVE OPPORTUNITY.—Fine Business; busiest main road position; South London; well-appointed shop; house over; established in 1870 by present proprietor; yearly turnover £2,000; ample scope for considerable improvement; premises can be purchased, or lease will be granted at reasonable rental; price only £1,200; stock, etc., at valuation. Principals only write to Messrs. Cuttings, Surveyors, 4 Tooting Bec Road, Balham.

RAMILY and Agricultural Business in a good Yorkshire market town; big turnover and unlimited scope; a real live business in pleasant surroundings; particulars to prospective buyers only; bank references required. Apply 134/380, Office of this Paper.

NOR Sale, through unusual circumstances, Business connected with manufacture of Rat and Mouse Preparation; complete stock, value £55, to be sold for £40. Kindly enclose 1s. 6d. P.O. for complete details, showcards, etc. (returnable). "B. D.," 2 Sydney Terrace, Lancaster.

FOR disposal, Branch Business, main road, large town South Wales; nicely fitted and up-to-date windows; good passing trade; terms can be arranged; particulars on application. 134/15, Office of this Paper.

CENUINE, compact, easily worked Cash Business; good Photographic connection; no near opposition; £500, or (R.P.U.) valuation entertained; health reason for disposal; £950 turnover, including 250 N.H.I. prescriptions a month. 129/14, Office of this Paper.

OLD-ESTABLISHED Country Business, Eastern county; Chemist, Wine and Spirits, and Ironmonger; freehold property, with good living accommodation; large walled-in garden and spacious outbuildings, side gate; Photographic, N.H.I.; room for Optical work; returns over £2,000; price £2,500. "D.," 132/4, Office of this Paper.

OUND Business; net profit £450 to £500; unopposed; Kodak Agency; price £600. Also premises, 3 bedrooms, boxroom, bathroom, 2 sitting-rooms, side and back entrance and yard; electric light; price £350; near Broads, boating, fishing, golf; no heavy trade. Particulars in confidence to genuine applicants. 133/31, Office of this Paper.

VILLAGE Pharmacy; Dispensing, Photographic and Veterinary, N.H.I. and Kodak Agency; no opposition; good house and garden; long lease; rent £45; returns £14 per week neglected; has done much more; price £500. 133/30, Office of this Paper.

AGENCIES.

INDIA.—Representative, at present in England, seeks additional Agencies for Proprietaries, Sundries, etc.; already representing well-known company for Drugs and Chemicals. Apply 128/461, Office of this Paper.

A GENCY required by established Wholesaler with excellent Chemists' connection in London area; regular calls on all customers by car; any readily saleable Chemists' lines or Proprietaries; prepared to carry and deliver stock. Letters to "J. J.," 31 Manor Way, North Harrow.

EXPORT Agent, leaving for Canada (Quebec and Ontario) towards end of August, desires additional Representations upon the basis of contribution towards expenses and commission; connection chiefly with Wholesale firms in these provinces of 20 years' standing, and will guarantee a minimum turnover. Reply 127/442, Office of this Paper.

PATENT FOR DISPOSAL.

THE Proprietors of British Patent No. 240,803, relating to "An Improved Manufacture of Petrolatum and Petrolatum Oils," desire to enter into negotiations with one or more firms in Great Britain for the Sale of the Patent Rights or for the grant of Licences to manufacture under royalty. Enquiries to be addressed to D. Young & Co., Chartered Patent Agents, 11 and 12 Southampton Buildings, London, W.C.2.

PREMISES WANTED.

DENTAL Surgeon requires Two Rooms over Chemist's Shop in small town; Surrey, Sussex or Kent. Address Box 70, Dental Manufacturing Company, 17 Newman Street, London, W.1.

PREMISES TO LET.

TO Hosiers, Men's Outfitters, Chemists, etc. Southall. Shop with flat over and Shop with large showroom to Let or Sell; good opening; busy market in rapidly growing town; rents £125 and £175, or prices £1,900 and £1,500 respectively. Agents, Sturt & Tivendale, F.A.I., opposite Muswell Hill Station, N.10.

To Let, small Shop and Store; splendid opening for new business in large area; without opposition; lease. W. Hill, 188 High Street, Deal, Kent.

PREMISES FOR SALE.

URREY.—Freehold Shop Premises for Sale; price £950, or might let to suitable person; now a Chemist; only built 2 years; good living accommodation, with garden; working-class district; good opening under owner; if let on lease, rent £65 annum. 134/6, Office of this Paper.

APPRENTICE WANTED.

A PPRENTICE.—Alsop & Quiller require well-educated youth as Apprentice. Apply, by letter, 137 Sloane Street, S.W.1.

SITUATIONS OPEN.

RETAIL.

HOME.

The Advertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BECKENHAM.—Qualified Manager (married) for Family business, with good house attached; excellent opportunity for a man wishing to make progress. Give full particulars and state when at liberty in first letter. 132/800, Office of this Paper.

BRADFORD—Qualified lady Assistant for Light Dispensing and Retail. State full particulars, age, salary, etc. 132/13, Office of this Paper.

COUNTY MENTAL HOSPITAL, RAINHILL, LANCS.—Dispenser Wanted end of August; fully qualified; salary £120 per annum, rising by annual increments of £10 to a maximum of £200 per annum, with a fluctuating bonus (at present £82 18s. per annum) in addition, making a commencing value £202 18s.; the appointment is subject to the provisions of the Asylums Officers Superannuation Act, 1909. Applications, stating age, experience and qualifications, and accompanied by copies of three recent testimonials, to be addressed to the Medical Superintendent.

DERBYSHIRE.—Smart qualified Assistant wanted (either sex) for holiday season; must have excellent knowledge of Photography, and be both capable and willing to give hand with D. & P. Give full particulars, age, etc. S. E. Greenwood, Chemist, Bolsover, near Chesterfield.

RAST COAST.—Wanted, early in July until end of September, Junior Assistant (male). Please give particulars, age, experience, height, salary required (outdoors), and enclose photo. "Velox," 131/17, Office of this Paper.

KENT.—Qualified lady to manage branch 20 miles from London. Fullest particulars in first letter. 130/32, Office of this Paper.

EICESTER.—Qualified, lady or male, capable of building up business in newly-erected premises; good Window-dresser, Dispenser, sound knowledge of Photography. State full particulars, salary required (latter increasing as business develops; enclose photograph, to be returned. 131/19, Office of this Paper.

NDON, W.—Young qualified Assistant required; male; Dispensing, Counter, etc; state usual particulars. 135/12, Office of this Paper.

L ONDON, S.W.—Smart and energetic youth, about 18 to 21 years of age, required for Counter, Window-dressing, and general shop routine; knowledge of Dispensing not essential. Apply by letter, stating age, references, and remuneration required, to Brook, M.P.S., 155 Lavender Hill, S.W.11.

LONDON (City).—Junior male Assistant, unqualified, outdoor, required from early date to middle of September; easy hours. Apply Pollock & Co., 133 Fenchurch Street, E.C.3.

LONDON, S.W.-Qualified Manager for Family and Dispensing business; house attached; applicants must have had experience in similar business; permanency, with agreement on takings. Give all particulars, and state salary required and when at liberty. 132/803, Office of this Paper.

LONDON, S.W.-Unqualified Assistant for high-class Dispensing business. State age, salary required, when at liberty, and also give particulars of experience. 132/802, Office of this Paper.

LONDON, W.—Qualified Assistant required at early date; accustomed to high-class Dispensing; age about 25; also at a later date a temporary Junior Assistant for holiday season; good references essential. State full particulars, age, height and salary required to John F. Harrington, 15 Kensington High Street, W.8.

LONDON.—Junior Assistant required; good Dispenser and Counterman; quick and accurate. Please send full particulars of experience, age and salary required. H. F. Ferriss, 349 High Road, Lee Green, S.E.12.

LONDON, S.E.—Required, July, qualified Chemist (lady); hours, 10 to 7; must be willing and obliging; good salary. Apply, with references, 128/469, Office of this Paper.

MANCHESTER.—Competent, unqualified Assistant for goodclass Pharmacy; male or female; must have sound experience and references. Full particulars, height, age, experience, salary required, to 135/4, Office of this Paper.

MANCHESTER.—Wanted, a thoroughly experienced Assistant, accustomed to a good class Retail and Dispensing Business and Photographic trade. Apply, with full particulars, to R. G. Edwards, Ph. Chemist, Fallowfield.

NEAR LONDON.—Experienced Assistant (male, single), about 25, required for good-class Dispensing business; one capable of taking charge if necessary, and a good Counter-hand, for high-class trade; unqualified. Give particulars of past experience, salary required, and when at liberty; also give references (in confidence), which will not be taken up unless negotiations follow. "Calcium," 131/16, Office of this Paper.

SOUTH COAST.—Young, capable, qualified Assistant required immediately. Write, giving full particulars, salary, and copy of reference in first letter, to 134/28, Office of this Paper.

CUSSEX COAST.—Qualified Manager, with Optical experience, or required for good-class Retail, Dispensing and Photographic; good references essential. Give full particulars of experience, age and salary expected; enclose photo if possible, which will be returned. Coates, Chemist and Optician, Littlehampton.

WEST RIDING.—Qualified Manager, single, required for Light Retail and Dispensing (N.H.I.) business; industrial neighbourhood; permanency with interest in the turnover offered to suitable applicant. "W. R.," 132/8, Office of this Paper.

A QUALIFIED Junior required; S.E. district; good opportunity for smart man; must be good Dispenser and Counterman. State salary required, experience, and earliest date free. 134/17, Office of this Paper.

A SMART, unqualified Assistant, single, between 25 and 35 years, for market town in East Riding of Yorkshire; must be of smart appearance and capable of taking charge. Salary required and references to 134/38, Office of this Paper.

A SSISTANT wanted for July to September, accustomed to good-class Retail and Dispensing, knowledge of Photography and Toilet Preparations; age about 30. Salary required and references to Wm. Ruff, Whitby, Yorkshire.

A SSISTANT, young man, required soon; must be obliging and willing; state experience, capabilities, and salary. "Chemist," 150 Southampton Row, W.C.1.

CAPABLE, trustworthy, qualified Branch Manager; married; house accommodation at shop; Photography, etc. Please state full particulars in first letter, wages required, references, etc., to Giles, Chemist, Newport, Mon.

COPPEN BROS, require a Locum (fully qualified) for their Richmond (Surrey) branch, two weeks, commencing August 27 to September 8; no Sunday work. Apply personally, 10-12, or by letter, Coppen Bros., 12½ Carey Street, Vincent Square, Westminster.

DISPENSER.—Alsop & Quiller require qualified Assistant as Dispenser. Apply, by letter, 137 Sloane Street, S.W.1.

DISPENSER wanted, July 8; outdoors; state age, experience, salary required; additional duties consist of book-keeping (accounts twice yearly); assistant expected to help with spring cleaning; hours (week-days), 9-11 a.m., 2 p.m., and 6-7.30 p.m. (except Tuesday evenings); Sundays, 10-11 a.m. and 2 p.m.; 3 weeks' holiday. State qualifications and enclose copies of testimonials to Dr. Bletchly, "Hazelwood," Nailsworth, Gloucestershire.

ELDERLY (lady or gent.) for part-time Dispensing; must be qualified. Full particulars and salary required; permanent position. "Requirement," 132/29, Office of this Paper.

EXPERIENCED, unqualified lady Assistant; good Saleswoman and accurate Dispenser; commencing salary £3 5s. Please give particulars of previous experience and state when disengaged. 6 Lewisham Road, Lewisham.

JUNIOR wanted, June 25; Westminster; Counter, Dispensing, Photo; salary £2; state experience. P.C.B. 32/18, Office of this Paper.

JUNIOR male Assistant required by July 2 for Counter and Dispensing; knowledge of Photographic Sales essential. Apply, with references and salary required, enclosing photograph, Atkins & Son, Pharmacists, Salisbury.

LADY required (unqualified) to keep books, Wholesale and Retail, also to assist in Retail Pharmacy, Dispensing and Counter; knowledge of typewriting an advantage; state salary required. Apply E. B. Stamp, 29 High Street, Hampstead, N.W.3.

LADY Assistant (unqualified) required for Pharmacy near London (indoors); must be capable of keeping books and have some knowledge of Dispensing. Full particulars to 128/463, Office of this Paper.

OCUM, qualified, for period of eight weeks, July-September.

Particulars of terms, references, and experience to be addressed Wall, Chemist and Druggist, 221 Chester Road, Manchester.

ONE qualified and one unqualified Junior Assistant for good quick Counter Family trade; must be good and smart Dispensers. Send all particulars to G. H. Moss & Son, Chemists, Little Sutton, near Birkenhead. (Enclose photograph if

PHARMACIST, with sound knowledge of Sight Testing (J.C.Q.O.), required end of June in good-class business; good salary to reliable, progressive man. Full particulars in first letter to 134/30, Office of this Paper.

QUALIFIED Assistant, young, wanted, capable of taking occasional charge. Full particulars, age, experience to Bamforth & Co., Chemists, Warrington.

QUALIFIED Chemist (lady) wanted to do Locum from August 20 until September 8 in S.E. London. Apply 132/20, Office of this Paper.

QUALIFIED Assistant (male), young, single, for Light Retail and Dispensing business. Write, stating age, experience and salary required, Chas. J. Taylor & Son, 292 Cheriton Road, Folkestone.

QUALIFIED man required, July 9 to 28 inclusive; Ilford district. 133/21, Office of this Paper.

QUALIFIED Assistant (lady or gent.) immediately for modern Branch Pharmacy; permanency; two kept. Please state full particulars as to age, experience, salary required, and photo (if possible) to C. E. Beveridge, Chemist, 185 High Street, Gillingham, Kent.

QUALIFIED Dispenser wanted for permanent position in large Departmental Stores. Write, stating age, experience and salary required, to Staff Manager, Welwyn Stores, Ltd., Welwyn Garden City, Herts.

QUALIFIED Assistant wanted for country branch; bachelor; must be obliging and willing; state age, references, and salary, must be moderate, photo, and when at liberty. 134/13, Office of this Paper.

QUALIFIED Manager required for Family and Dispensing business in S.W. London; first-class references essential. Please state age, salary required, with recent references, and photo. 128/470, Office of this Paper.

RELIEF Manager, age 26-30, required for holiday season; for a trustworthy man of ability a permanent engagement would follow; good Window-dresser with Photographic experience. Apply to 128/467, Office of this Paper.

SHORTHAND-TYPIST, with knowledge of Book-keeping, required for Retail Chemist. Apply, own handwriting, tating previous experience, age, and salary required; preference given to person with previous experience in Drng trade. 127/458, Office of this Paper.

S TOCKTAKER required immediately; applicants must have had experience in similar capacity. Particulars of experience, also age and salary required, must be given in first letter, 132/80, Office of this Paper.

THE Ten Acres and Stirchley Co-operative Society, Ltd.; invite applications for the position of Manager of a new Chemistry and Drug Department; applicants must be qualified Chemists with J.C.Q.O. Optical registration, and possess a general knowledge of the Retail business. Applications to be made by letter, giving particulars of qualifications and experience, also stating age and wages required. Registered Office: Umberslade Road, Stirchley, Birmingham.

TAYLORS DRUG CO., LTD., require qualified Managers for Hull area and (Malton district, with Agricultural experts ence) capable Salesmen. References, age, qualification, wage required and photo, first instance, to 169 Coltman Street, Hull.

THOMPSON & CAPPER, LTD., Liverpool, will shortly have a vacancy for a really first-rate experienced Manager for one of their branches; he must be thoroughly efficient in Photography and up to date in every respect. Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

UNQUALIFIED Assistant required immediately. Give particulars of experience, also state age, salary required, and when at liberty. 132/801, Office of this Paper.

UNQUALIFIED Assistant, age 21-22, required at once. Full particulars, experience, salary, etc., in first letter to Bruce, Chemist, Westcliff.

UNQUALIFIED Assistant wanted for holiday relief; July 14 to 28 in London, August 11 to September 22 in provincial town near London. Apply, stating experience, salary required, references, etc., to 135/3, Office of this Paper.

WANTED, a capable male Assistant for Surgical Instrument Department of old-established house in North of England; good position for suitable applicant, but must have full experience in fitting surgical appliances and orthopædic work. Apply, stating age, salary, and when at liberty, to 127/454, Office of this Paper.

WANTED, for few months, capable Assistant for general duties. State age and experience. Nathl. Smith & Co., 373 High Street, Cheltenham.

WANTED, reliable Junior Assistant (outdoor) or Improver just finished apprenticeship, early in July; good Salesman, accurate Dispenser. Full particulars, age, height, experience, salary required, with copy of references; photo, if sent, will be returned. Fuller & Co., Ltd., Chemists, Norwich.

WANTED, qualified Assistant (young) capable of taking charge of branch shop; knowledge of Photography and Wireless an asset. Apply H. W. Dix, Ltd., 23 Commercial Street, Pontypool (Mon.).

WANTED, qualified Locum for three weeks as Assistant. State salary required. 128/464, Office of this Paper.

WANTED, service of qualified Chemist for specific. "P., "P. P.C.B. 32/13, Office of this Paper.

WANTED, unqualified Junior for good-class cash and Dispensing business, with Photography; must be able to undertake D. & P. Reply, giving age, height, experience, and references, with salary required, to 135/8, Office of this Paper.

YOUNG qualified Junior Assistant required; permanency; must be a good worker, well up in Dispensing, Photography and Counter work; wages £4 10s. per week. H. S. Aplin, 50 Barking Road, Canning Town, E.16.

WHOLESALE.

T. ALBANS (near).—Wanted, lady Chemist and Druggist in the Office and Laboratories of a firm of Manufacturing Chemists; must have some knowledge of Analysis and experience in Shorthand and Typing. Replies to be addressed to 132/190, Office of this Paper.

A BLE Representatives wanted for London, Surrey, Bucks, Herts, Northumberland and Durham, and Wales (excluding South) and Isle of Man; excellent connection with the Chemists essential, also Hairdressers' connection desirable; 15% commission and £4 per month part expenses. 127/456, Office of this Paner.

BURROUGHS WELLCOME & CO. require additional Travelling Representatives, and invite applications from young qualified Pharmacists of good address and experience; age 25 to 27; only applicants meeting these requirements will be considered. Apply, in writing, to Reference C, Burroughs Well-come & Co., Snow Hill Buildings, E.C.1.

JUNIOR Ledger Clerk required for City Wholesale Druggists, Apply, by letter, giving full particulars and salary required, to "X. Y. Z." 128/472, Office of this Paper.

MEDICAL REPRESENTATIVE.

A LONDON HOUSE, specialising in ORGANIC PHARMACEUTICAL PRODUCTS, requires the services of

TWO PHARMACISTS

of ability and experience, for London and Lancashire respectively, to call on the medical profession.

Replies to be sent to "Triangle," 127/455, Office of this Paper, stating previous experience, age, height, salary required, enclosing photo if possible.

Applications will be treated in confidence.

MEDICAL REPRESENTATIVES.—Applications are invited from qualified Pharmacists, not over 35 years of age, to cover East Coast and South-Western Counties; previous experience not absolutely necessary; able to drive light car; salary and expenses basis. Full details to 128/462, Office of this Paper.

REPRESENTATIVE required to work world-renowned brand of Olive Oil in Lancashire, Cheshire and North Wales; gentleman carrying other lines as well preferred. Apply 127/459, Office of this Paper.

REPRESENTATIVE required for South and S.W. Counties; popular-priced Toilets; salary, commission and expenses; good connection essential; car an advantage; existing connection handed over. 133/28, Office of this Paper.

PEPRESENTATIVE required, calling upon Chemists, Doctors and Hospitals, to sell Bottles, Sundries, also Wholesale Perfumers, etc., to sell Essential Oils. State connection, experience and salary, giving full particulars. 127/453, Office of this Paper.

REPRESENTATIVES required in all territories in the United Kingdom to develop present sales of high-class advertised Toilet Preparations; successful applicants will be given a month's trial on generous commission terms; if satisfactory, appointment will be given on salary and commission; applicants must be real salesmen able to prove good records and have sound connections with chemists, stores and high-class hairdressers; splendid opportunity for first-grade salesmen; write fully, with full details of territory, turnover, lines carried (if any), in strict confidence, to 133/25, Office of this Paper.

REQUIRED, good commission man for London; very popularpriced Toilets; good commission to man carrying other non-competitive lines. 133/280, Office of this Paper.

C HORTHAND-TYPIST required for London Wholesale Druggists; previous experience essential; quick and accurate. Apply, giving particulars and salary, to 128/473, Office of this Paper.

CMART Representative, already calling upon Chemists and Druggists, to cover the United Kingdom to carry two good Proprietary lines on excellent commission basis; the lines are easy selling all the year round. Write (in confidence) to "Extra Commission," 127/460, Office of this Paper.

SURGICAL INSTRUMENTS.—Assistant required, with experience, for London house. Apply, giving particulars (in confidence) and state age and salary required. P.C.B. 32/24, Office of this Paper.

THE KRASKA CO. require Representatives, with well-established connections among Shippers and Exporters, to place their well-known Manicure Preparations, on a good commission basis. Write full particulars to 65 Portobello Road, W.11.

TOILET AND PERFUMERY.—Young, energetic Traveller wanted at once to sell well-known advertised Specialities in London and suburbs. 128/468, Office of this Paper.

WANTED, experienced lady Pharmacist as Abstractor and Librarian in Laboratory of Chemical Works. 132/19, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

A DEN.—Young qualified Manager required for Retail establishment in Aden; Eastern experience preferred, but not mecessary, 3 years' agreement; passage paid out and home; attractive prospects. Apply, stating full particulars, to "A. N.," Allen & Hanburys, Ltd., Bethnal Green, London, E.2.

COLONIES.—Qualified Assistant required for healthy British Colony; good opportunity for young unmarried man; passage paid out; 3 years' agreement. Apply, by letter only, to "L.," 14 Lafone Street, London, S.E.1.

SITUATIONS WANTED.

RETAIL: [HOME.]

The Anvertiser may if preferred have replies addressed to thi Office, and forwarded on payment of an additional charge of 1/-

A.A. —QUALIFIED; Scot; 33; tall; shortly disengaged Manager or Assistant; moderate salary. P.C.B. 32/19, Office of this Paper.

A.A.A.—EXPERIENCED, middle-aged, abstainer, urgently knowledge Photography; offers invited. "Aspirin," 24 Cliftor Hill, Brighton.

A.A.—LOCUM or permanency; unregistered; Dispensing Counter, Windows, Prescribing, Photography; state salary. "Statim," 16 Brixton Road, S.W.9.

A RELIABLE and trustworthy Locum is available now untiend of July; well known and highly recommended "Quarante," P.C.B. 32/30, Office of this Paper.

A YOUNG qualified man seeks engagement in a good-class Pharmacy; trustworthy; reliable; abstainer; not afraid of work or responsibility; excellent all-round experience; position must be a permanency and offer scope for improvement; free immediately; South preferred; interview if necessary. 132/21, Office of this Paper.

A YOUNG lady, at present matriculating, desires Apprentice ship in good-class Pharmacy, North London district preferred, commencing August. Apply Miss G. Andrew, 92 Durham Road, South Tottenham, N.15.

A DVERTISER, Senior, unqualified, 31, tall, single, progressive, keen, reliable, seeks post with prospects; first-class testimonials; disengaged shortly. 134/22, Office of this Paper.

A DVERTISER, last 20 years in three places as managing senior, principals' slight supervision, desires similar post; unregistered; articled; best varied Dispensing, Medical, Surgical and modern trade; can wait for permanent opening, meanwhile as Locum: Oculists' prescriptions. "J. W. C. N.," "Melbourne," Brading, I.O.W.

A PPRENTICESHIP wanted by lady; has had a little experience; London preferred. 132/17, Office of this Paper.

A S Locum; qualified; long experience in all branches; active; excellent references; terms moderate. "S. C. I.," 54 Priory Road, West Hampstead, N.W.6. 'Phone: Hampstead 7151.

A. Senior Assistant; 25 years' theoretical and practical experience in Retail Pharmacy; unregistered, but College trained; disengaged 30th. 132/7, Office of this Paper.

AS experienced mau in live business or good Stores; Dispensing, quick, accurate, neat, Counter, Prescriber, Salesman, Photo. Optics, Surgical and Medical Appliances. "G.," 130 Scott-Ellis Gardens, N.W.8.

A SSISTANT; 31; Part I; excellent experience all branches; ablc to manage; undeniable references. Apply 134/7, Office of this Paper.

A SSISTANT, unqualified, conscientious, requires position; good Dispensing, Photographic, Counter and Window-dressing experience; young. Apply "Westham," 132/24, Office of this Paper.

A SSISTANT, disengaged, requires post; permanent or temporary; good all-round experience; quick; energetic; references. E. Griffiths, 38 Nova Road, W. Croydon, Surrey.

A SSISTANT; unqualified; temporary or permanent; experienced and capable; Dispensing, Counter and Photographic; good references. "L. S. M.," 10 Orb Street, Walworth, S.E.17.

A SSISTANT; age 24; tall; referred Pharmacy; five years' good all-round experience. "Quercus," 34 Seafield Road, North Shore, Blackpool.

A SSISTANT; unqualified; 37 years' good all-round experience; abstainer; able to manage; excellent references; disengaged. Macleod, 5 Fulton Villas, Boundary Road, N.22.

CHEMIST; 36; unqualified; last 12 years manager of warehouse of multiple shop company (20 branches); Buyins, Manufacturing Galenicals and own preparations, distribution; references undeniable. H. Davis, 35 St. James Street, Brighton.

CHEMIST'S Assistant requires engagement in London or district (West-End preferred) with Doctor, Hospital, or in shop; careful and accurate Dispenser; referred Pharmacy; good references; moderate salary. Griffiths, 23 Hamilton Road, Harrow.

HEMIST-OPTICIAN, fully qualified, M.P.S., F.B.O.A., J.C.Q.O., middle-age, thorough knowledge of all branches, icluding Photography and Veterinary work, desires position to rnear London preferred; capable of taking full control of incipal business or branch; could open Optical Department; wn apparatus. Apply to 135/6, Office of this Paper.

OCTOR, leaving large practice, recommends his lady Dispenser; with him 8 years; capable; good at dressings; ce when engaged. P.C.B. 32/23, Office of this Paper.

ISENGAGED; qualified; tall; single; 34; all-round Counter and Dispensing experience; energetic; good Window-resser. B. Mills, 62 Cowper Street, Northampton.

DISPENSER, lady (young), Apothecaries' Hall Certificate, free to accept appointment; temporary, permanent; experinced Hospitals, etc. 17 Ripplevale Grove, N.1.

JUNIOR; 22; 3 years' apprenticeship; Part I; good expericace, Dispensing; Counter, Photographic; excellent referace; energetic; abstainer; seeking London experience. riffiths, Station House, Dyffryn-on-Sea, Mcrioneth.

UNIOR; 21; male; first-class Dispensing experience; good references; disengaged. Apply C. Hunter, Greenwood, Cuckeld, Haywards Heath, Sussex.

ADY, 21, experienced Hospital and Retail, Dispensing and Counter, requires post in Retail or with Doctor; commence arly July; Birmingham district; recommended. 132/18, Office I this Paper.

OCUM; qualified; 23; disengaged fortnight June 18-30, also end of August; registered R.P.U. "Locum," c/o Waite, hemist, Rotherham.

OCUM, M.P.S., F.I.Ö., has two vacant weeks, July 30 to August 9. "Locnm," c/o Chantlers, Chemists, 34 Manhester Street, Luton.

OCUM; unqualified; middle-aged; thoroughly experienced; discngaged. "Locum," 65 Birrell Road, Nottingham.

OCUM; experienced; qualified; disengaged June 20-July 14, also July 30-August 18. "Chemist," 32 Fairmount Road, brixton Hill, S.W.2.

OCUM; qualified; experienced; now free; booking up dates; reasonable fees. Apply 133/20, Office of this Paper.

OCUM; disengaged; thoroughly competent; obliging; experienced; town or country; terms moderate. "Chemicus," 39 Camberwell New Road, S.E.5.

OCUM; qualified; experienced; good Salesman; anywhere; best references; after July 22. 80 Brookbank Road, ewisham, S.E.

OCUM; qualified; first-class experience; excellent references; free July 20 to August 6. Scott, 24 Herbert Road, S.W.9.

OCUM; qualified (Minor); free June 25 to July 7; fully experienced, reliable and competent. "Chemist," 85 Lanaster Road, Leytonstone, E.11.

LOCUM; qualified; highest references; 30 years' first-class experience; last fortnight July, ditto June. Parker, 8 Frinity Place, Hastings.

OCUM; experienced; disengaged to July 14; vacant 29th; active; trustworthy; long references. "Chemicus," 20 Meadow Street, Manchester, M.S.

OCUM; experienced; registered R.P.U.; vacant dates June 23-July 8 inclusive. 30 Rosslyn Road, E.17.

OCUM; available July 23-August 4; young, qualified, and experienced; will go anywhere for reasonable fee. "C. B.,"
Avonmore Road, W.14.

LOCUM, or emergency relief; disengaged; good references; moderate salary; thoroughly experienced. "Statim," 35 Acland Street, Burdett Road, E.

OCUM; middle-aged; experienced; can take charge; vacant onward; abstainer; booking dates; terms moderate. Pharmacist," BM/ZP6N, London, W.C.1.

MANAGER; qualified; Midlands preferred; experienced, active and reliable; interview desired. Briggs, 8 Brooke Street, Oudley.

MANAGER, young, energetic, requires post; West-End experience; expert Window-dresser; undeniable references. Pharmacist," 20 Clarence Gardens, Finchley, N.3.

MINOR, over 20 years' experience, Retail and Institutions, excellent Dispenser, seeks part-time post, mornings or evenings or both, in London; exceptional references; would tecept moderate salary for suitable post. "Minor," c/o Camish, Brunswick Avenue, Beverley Road, Hull.

M.P.S.—CAPABLE Manager or Assistant, young, ener-J.C.Q.O., desires situation, with or without Optics, or would introduce Optics, in Blackpool, St. Annes, Preston, Bolton or Manchester districts. 133/17, Office of this Paper.

M.P.S. UNIVERSITY trained, excellent Retail experience, seeks good post, preferably in London, or Locums. P.C.B. 32/210, Office of this Paper.

M.P.S., 28; tall; single; Senior or Branch Manager; 10 ing, Photographic and Agricultural businesses; excellent references; willing worker; abstainer. "Chemist," 41 Clifford Street, Wolverhampton.

PHARMACIST; 33; married; experienced, Retail, Hospital; Locum, permanency (preferred); South England preferred; at liberty. "Chemicus," Guy's Hospital, London, S.E.1.

QUALIFIED Manager, 37, single, desires post in or near London; all-round experience, London and country. 134/9, Office of this Paper.

QUALIFIED; young lady; 9 years' experience; used to quick trade; keen worker; London preferred. Apply "Zingib," 41 High Street, West Norwood, London, S.E.27.

QUALIFIED; 26; good all-round experience; disengaged; Manager or Senior. Robinson, 53 Brockwell Park Gardens, Herne Hill, S.E.

QUALIFIED; middle-aged; not robust; Superintendency, small Managership, or suitable employment; full or part time; small salary. Barker, 53 Louis Street, Leeds.

QUALIFIED (25) desires position as Branch Manager; 7; years' good all-round reference, including Photography; last-position managership; Lancs. or Yorks. preferred, but not essential. 134/32, Office of this Paper.

QUALIFIED, 24, at present managing private shop, desires progressive berth, Retail or Wholesale; willing to take up further studies for good position; seven years' all-round experience, with highest references; disengaged on request. 254/33, Office of this Paper.

QUALIFIED; married; West End and Continental experience; fluent French, seeks position; West End or City preferred. 135/9, Office of this Paper.

QUALIFIED; Branch Manager; thoroughly experienced; middle-age; good Counterman and Window-dresser; tall; good manner and appearance; permanency. 128/465, Office of this Paper.

SENIOR Assistant or Manager of Drug Stores; 48; reliable; active; experienced; disengaged end July. 133/22, Offico of this Paper.

SOUTH ENGLAND.—Young lady, referred Pharmacy, desires situation; Edinburgh trained; 7 years' experience; Photographic and Dispensing, country and town; references. Nan Crawford, 56 Edgeware Road, Milton, Portsmouth.

UNQUALIFIED, 25, seeks post; seaside and town experience; good references; disengaged. A Woolmer, 4 Wood Street, Cuxton, Rochester, Kent.

YOUNG lady, well educated, seeks Apprenticeship with Chemist; Cardiff or Newport district preferred. Terms to Clarke & Son, Chepstow.

WHOLESALE.

A QUALIFIED Chemist is open to accept engagement with a firm of standing as indoor or outdoor member of staff; age 33; possesses initiative and selling powers; thorough knowledge of Therapeutics and conversant with Medical men; tall; excellent education; abstainer; willing to invest £ s. d. if necessary. Please forward offers to 131/8, Office of this Paper.

A DVERTISER, for the past 5 years Representative in Laucashire, Cheshire, North Wales, Westmorland and Cumberland for a high-class Proprietary House, prior to which for 16 years Manager to a Druggist Sundries House, desires engagement; splendid record; own car. T. G. Merrill, 19 Yew Tree Avenue, Moss Side, Manchester.

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IVE Representative, 16 years' experience, connection London and Southern Counties, own car, seeks appointment with old established firm. 134/36, Office of this Paper.

M.P.S., YOUNG, and with ability, desires to represent counties. 133/120, Office of this Paper.

M.S.C., A.I.C., M.P.S., experienced in Retail Pharmacy, Analytical, Research and propaganda work, seeks post with good prospects. P.C.B. 32/21, Office of this Paper.

REPRESENTATIVE, with sound practical experience of business and strong personal connection, desires change; good General or Proprietary House on salary and expenses basis preferred. 131/20, Office of this Paper.

REPRESENTATIVE, with 9 years' sound connection, Eastern Counties, Chemists and Hairdressers, Toilets and Packed Goods, age 35, sound references and proved salesmanship, seeks similar post with good house. 126/24, Office of this Paper.

SALESMAN, splendid selling record, 9 years' sound connection, Wholesalers, Stores, Multiple Sheps, etc., seeks post with progressive house; strictest references. P.C.B. 32/20, Office of this Paper.

SALESMAN, young, energetic, already calling on Chemists, Birmingham and district, seeks representation of reputable Drug or Chemical Company offering greater incentive for merit and enterprise; Wholcsale and Retail experience; genuine Proprietary considered; salary and commission. Address 128/466, Office of this Paper.

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WELL-CONNECTED gentleman, 30, wishes to represent reputable Drug or Perfumery Honse; own car; London or part preferred, but not essential; a 1928 business getter. Write "Cyril," 23 Melrose Avenue, Wimbledon Park, S.W.19.

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PRENCH Pharmacist, 22, desires position, October to May; thoroughly experienced; best references; speaks English and German. G. Ferrenbach, 21 Boulevard Clemenceau, Strasbourg

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CO3 —SET OF MAHOGANY FITTINGS, consisting of 6 ft. Wall Case, 10 ft. Drug Fitting, 10 ft. Counter, 6 ft. Dispensing Screen, Perfume Case and Desk, bent plate-glass Counter Case, 2 nests of Counter Drawers. PERCY R. E. JOSEPHS, 68 Old Street, London, E.C.1.

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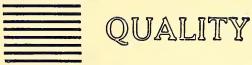
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